

Data File : VV012218.D
Acq On : 13 Aug 2019 16:23
Operator : SY/MD
Sample : VSTD02033
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

Quant Time: Aug 14 02:05:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR081319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Aug 14 02:01:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	228348	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	219712	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	114534	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	261220	25.42	ug/L	0.00
7) Chloroethane-d5	1.58	69	208372	26.70	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	483882	24.24	ug/L	0.00
20) 2-Butanone-d5	3.96	46	654305	252.44	ug/L	0.00
24) Chloroform-d	4.40	84	548779	19.65	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	255613	18.00	ug/L	0.00
32) Benzene-d6	5.09	84	1112069	20.67	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	322087	22.13	ug/L	0.00
41) Toluene-d8	7.36	98	1056271	19.67	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	132288	18.51	ug/L	0.00
46) 2-Hexanone-d5	8.13	63	512381	223.37	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	232860	19.99	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	377170	18.32	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	447589	20.567 ug/L	100
3) Chloromethane	1.25	50	396834	33.952 ug/L	99
5) Vinyl chloride	1.32	62	404840	31.012 ug/L	99
6) Bromomethane	1.53	94	235834	31.568 ug/L	96
8) Chloroethane	1.60	64	232450	31.681 ug/L	96
9) Trichlorofluoromethane	1.77	101	512186	22.679 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	280274	26.961 ug/L	99
12) 1,1-Dichloroethene	2.14	96	261510	27.354 ug/L	99
13) Acetone	2.23	43	389599	249.648 ug/L	98
14) Carbon disulfide	2.31	76	802927	29.842 ug/L	100
15) Methyl Acetate	2.47	43	99313	28.351 ug/L	97
16) Methylene chloride	2.53	84	259917	25.341 ug/L	99
17) Methyl tert-butyl Ether	2.81	73	745254	23.324 ug/L	100
18) trans-1,2-Dichloroethene	2.78	96	344422	24.603 ug/L	96
19) 1,1-Dichloroethane	3.23	63	616847	26.050 ug/L	98
21) 2-Butanone	4.04	43	862228	303.249 ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	374130	24.070 ug/L	97
23) Bromochloromethane	4.30	128	155303	21.383 ug/L	97
25) Chloroform	4.42	83	631865	21.548 ug/L	98
27) 1,2-Dichloroethane	5.18	62	377218	21.737 ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	559542	20.497 ug/L	99
30) Cyclohexane	4.72	56	593601	28.201 ug/L	100
31) Carbon tetrachloride	4.87	117	507790	19.449 ug/L	99
33) Benzene	5.14	78	1403492	24.799 ug/L	100
34) Trichloroethene	5.96	95	364815	22.252 ug/L	97
35) Methylcyclohexane	6.17	83	629169	24.388 ug/L	98
37) 1,2-Dichloropropane	6.22	63	340897	26.647 ug/L	100
38) Bromodichloromethane	6.55	83	444355	21.845 ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	525295	24.077 ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	2070414	286.254 ug/L	98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Aug 14 02:01:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	1536202	23.659	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	409138	23.927	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	235370	22.856	ug/L	98
47) Tetrachloroethene	8.02	164	309946	20.222	ug/L	99
48) 2-Hexanone	8.18	43	1464204	287.702	ug/L	98
49) Dibromochloromethane	8.29	129	299108	20.272	ug/L	95
50) 1,2-Dibromoethane	8.40	107	225264	22.227	ug/L	99
51) Chlorobenzene	8.92	112	966935	22.258	ug/L	98
52) Ethylbenzene	9.05	91	1728761	23.873	ug/L	100
53) m,p-xylene	9.18	106	668208	23.599	ug/L	99
54) o-xylene	9.59	106	642938	23.577	ug/L	96
55) Styrene	9.60	104	1087230	23.871	ug/L	99
56) Isopropylbenzene	9.97	105	1717245	22.935	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	277423	24.231	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	200311	22.863	ug/L	100
61) Bromoform	9.77	173	160313	18.522	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	793254	21.879	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	779953	21.525	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	721982	21.545	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	45005	21.283	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	619862	20.563	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	515714	21.029	ug/L	99
69) Naphthalene	13.55	128	855043	21.859	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	467867	19.946	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial      : 6      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

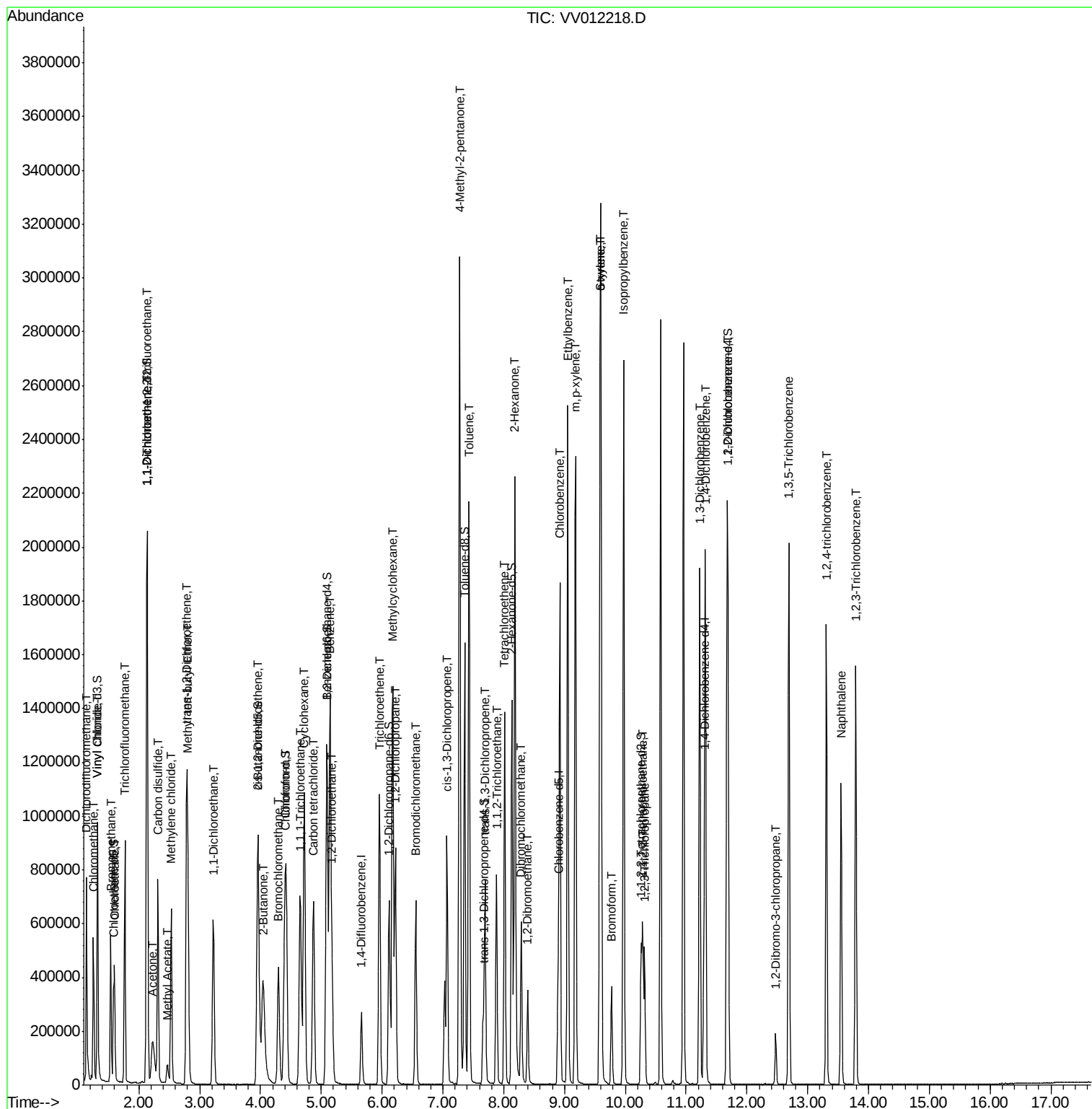
Quant Time: Aug 14 02:05:40 2019

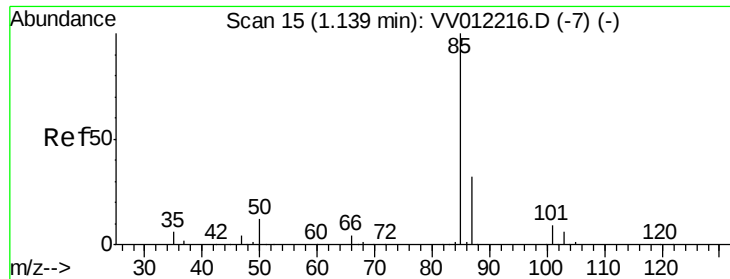
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0MVTR081319WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Aug 14 02:01:27 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 20.567 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

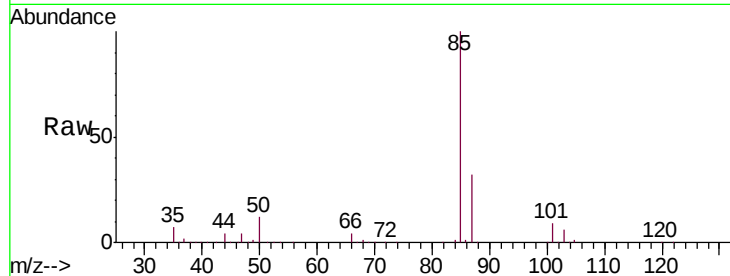
VSTD02033

Tgt Ion: 85 Resp: 447589

Ion Ratio Lower Upper

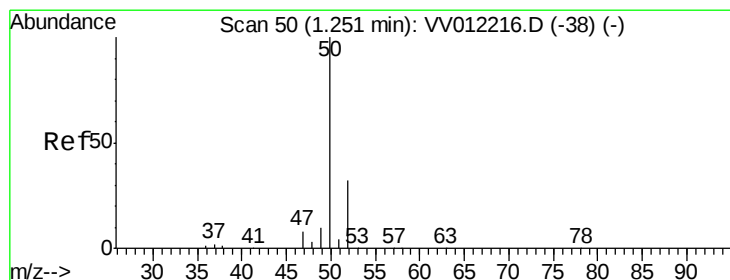
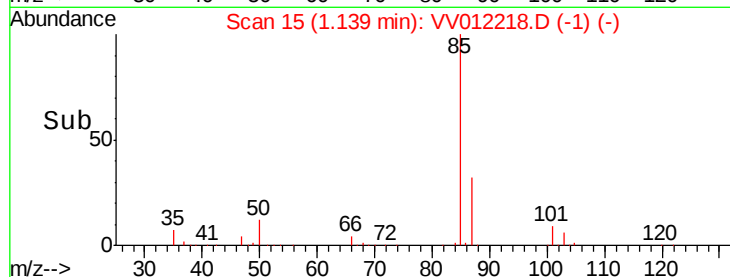
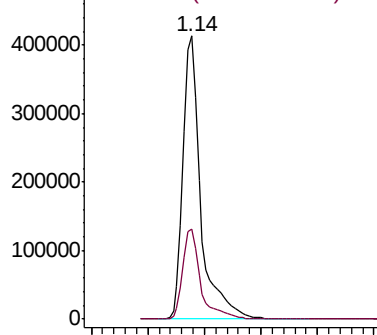
85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 33.952 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012218.D

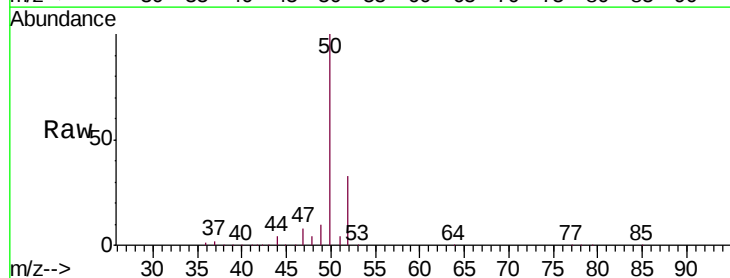
Acq: 13 Aug 2019 16:23

Tgt Ion: 50 Resp: 396834

Ion Ratio Lower Upper

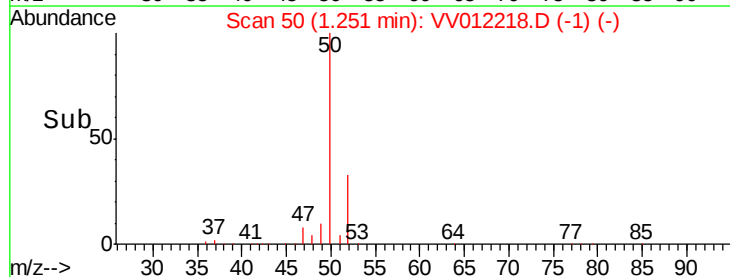
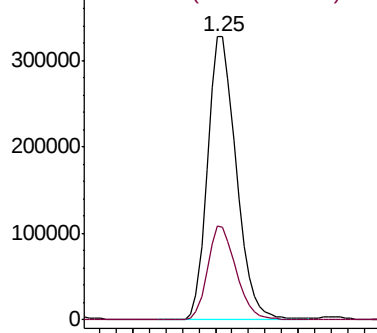
50 100

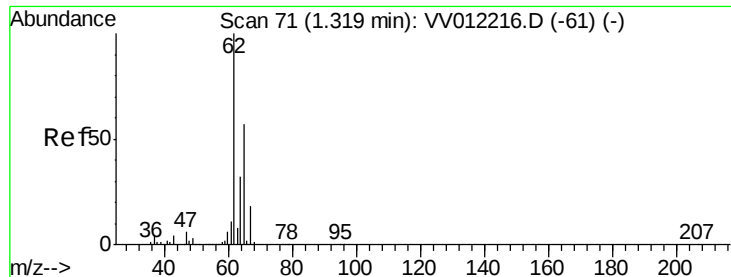
52 33.1 22.6 42.0



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 31.012 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

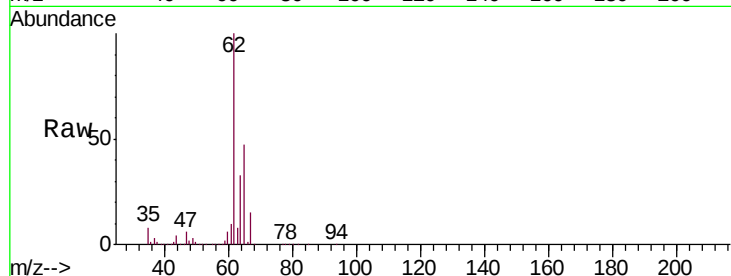
VSTD02033

Tgt Ion: 62 Resp: 404840

Ion Ratio Lower Upper

62 100

64 33.2 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV012216.D (-61) (-)

Ion 64.10 (63.80 to 64.80): VV012218.D (-45) (-)

1.32

400000

300000

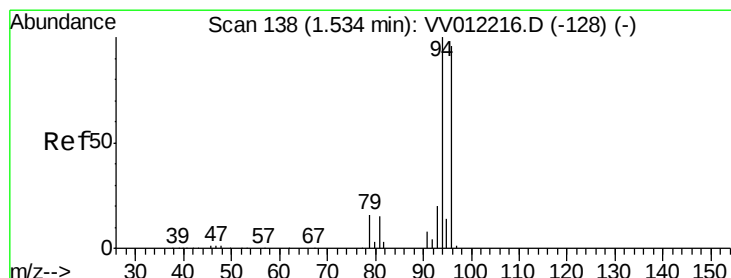
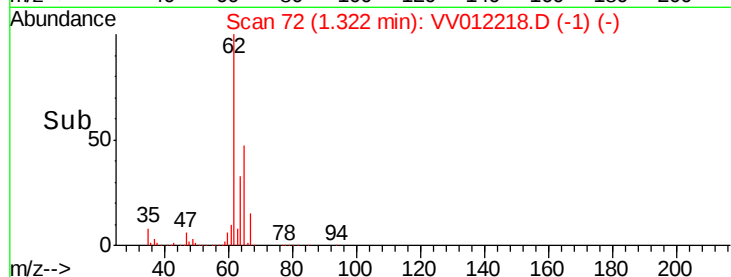
200000

100000

0

1.25 1.30 1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 31.568 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV012218.D

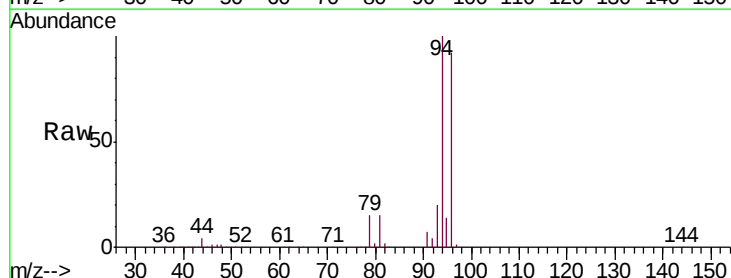
Acq: 13 Aug 2019 16:23

Tgt Ion: 94 Resp: 235834

Ion Ratio Lower Upper

94 100

96 92.5 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VV012216.D (-128) (-)

Ion 96.00 (95.70 to 96.70): VV012218.D (-45) (-)

1.53

200000

150000

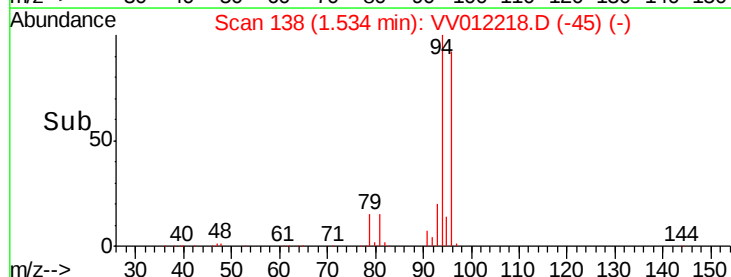
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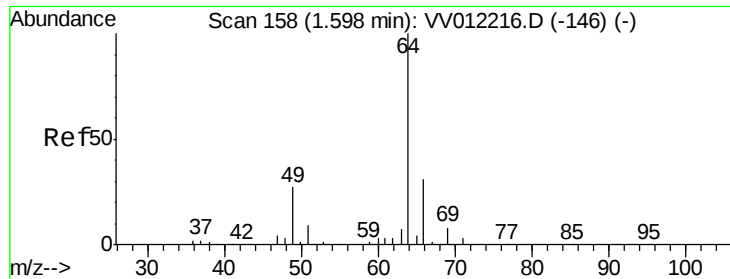
50000

0

1.50 1.55 1.60

Time-->

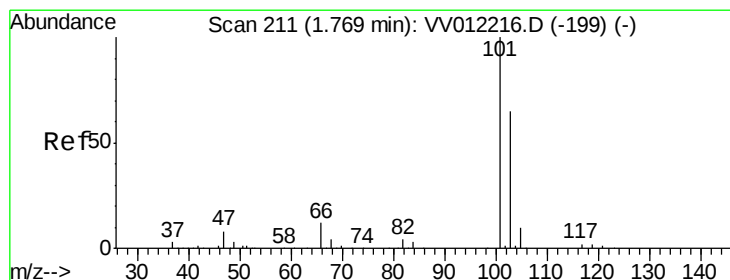
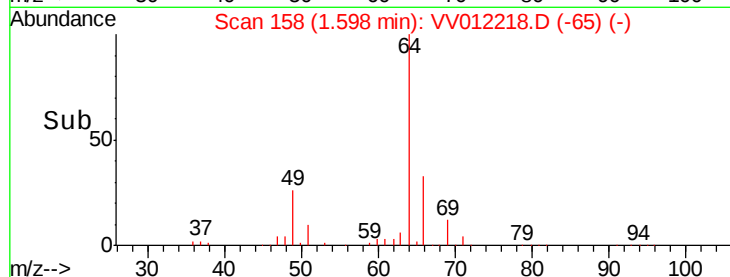
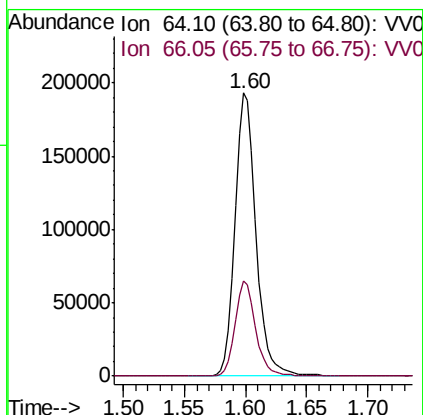
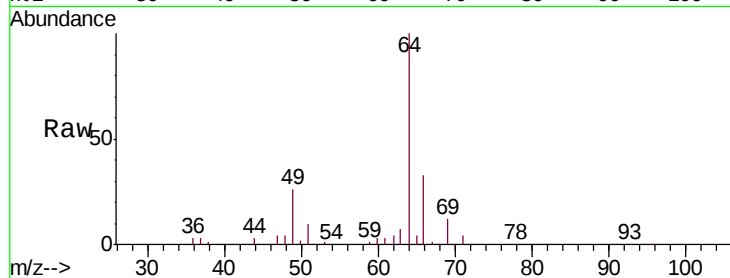




#8
Chloroethane
Concen: 31.681 ug/L
RT: 1.60 min Scan# 158
Delta R.T. -0.00 min
Lab File: VV012218.D
Acq: 13 Aug 2019 16:23

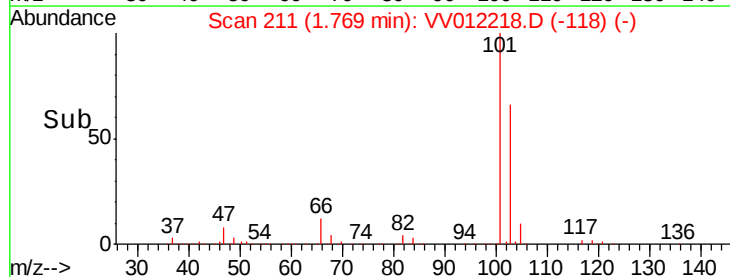
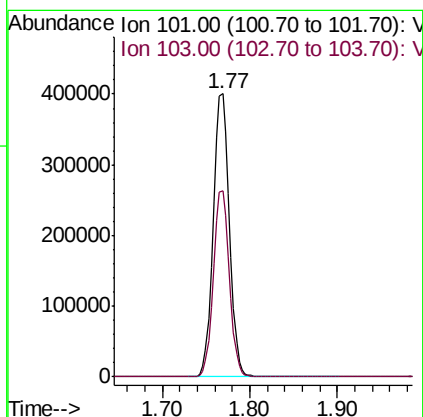
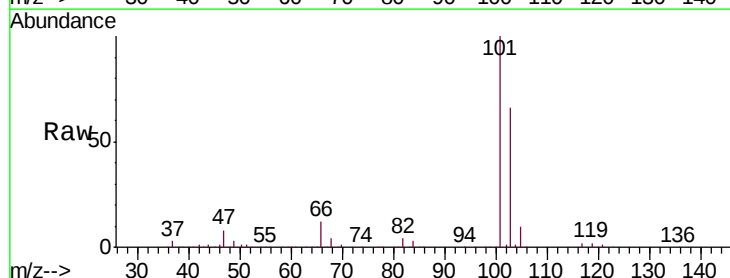
Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

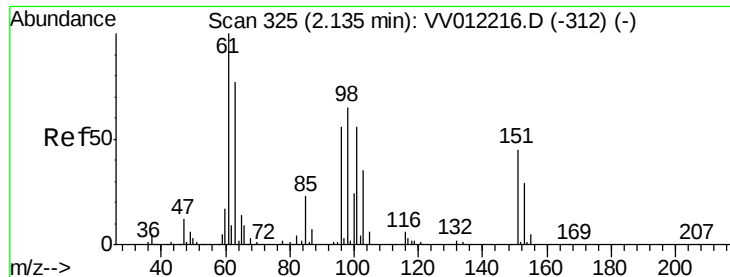
Tgt Ion: 64 Resp: 232450
Ion Ratio Lower Upper
64 100
66 33.5 21.8 40.4



#9
Trichlorofluoromethane
Concen: 22.679 ug/L
RT: 1.77 min Scan# 211
Delta R.T. -0.00 min
Lab File: VV012218.D
Acq: 13 Aug 2019 16:23

Tgt Ion: 101 Resp: 512186
Ion Ratio Lower Upper
101 100
103 65.0 52.0 78.0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 26.961 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

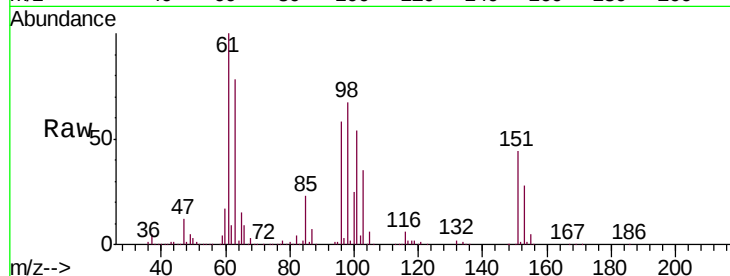
Tgt Ion: 101 Resp: 280274

Ion Ratio Lower Upper

101 100

85 41.9 33.7 50.5

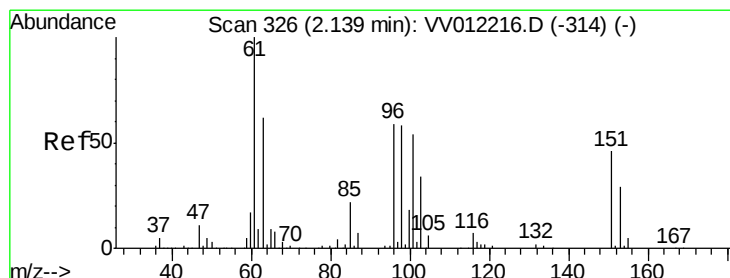
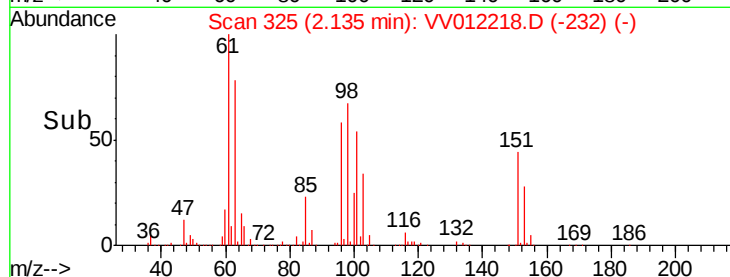
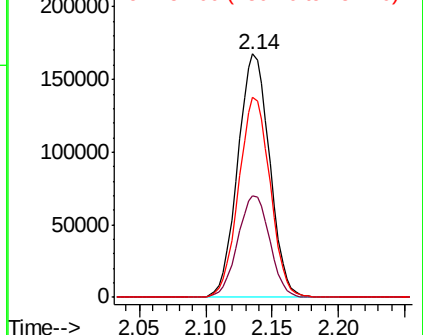
151 81.0 66.3 99.5



Abundance Ion 101.00 (100.70 to 101.70): VV012218.D (-232) (-)

Ion 85.00 (84.70 to 85.70): VV012218.D (-232) (-)

Ion 151.00 (150.70 to 151.70): VV012218.D (-232) (-)



#12

1,1-Dichloroethene

Concen: 27.354 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

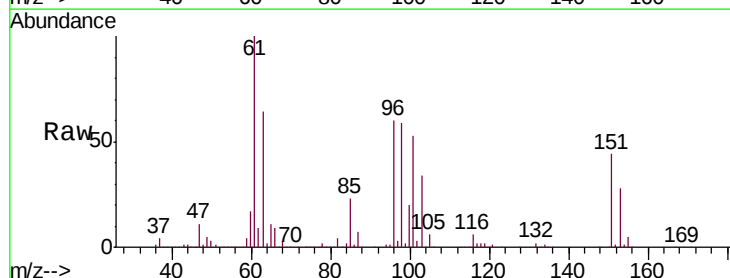
Tgt Ion: 96 Resp: 261510

Ion Ratio Lower Upper

96 100

61 167.8 119.3 221.5

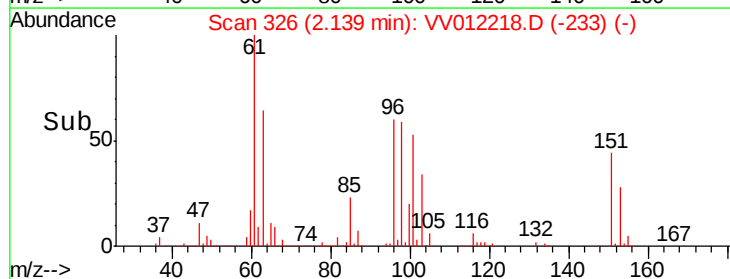
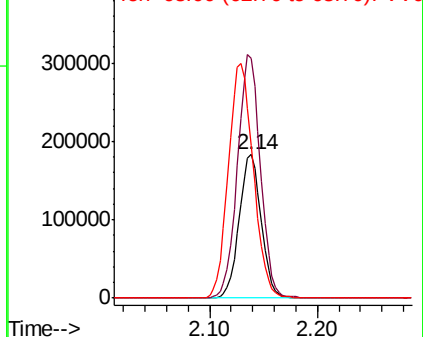
63 106.9 74.9 139.1

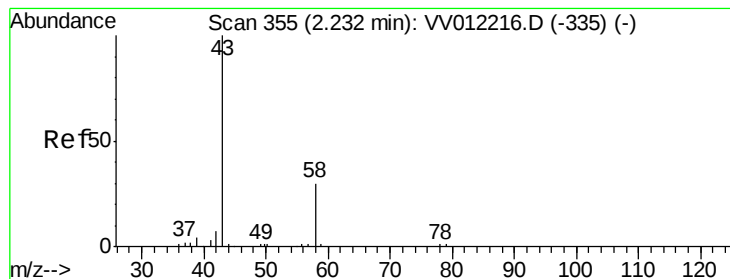


Abundance Ion 96.00 (95.70 to 96.70): VV012218.D (-233) (-)

Ion 61.05 (60.75 to 61.75): VV012218.D (-233) (-)

Ion 63.00 (62.70 to 63.70): VV012218.D (-233) (-)





#13

Acetone

Concen: 249.648 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.01 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

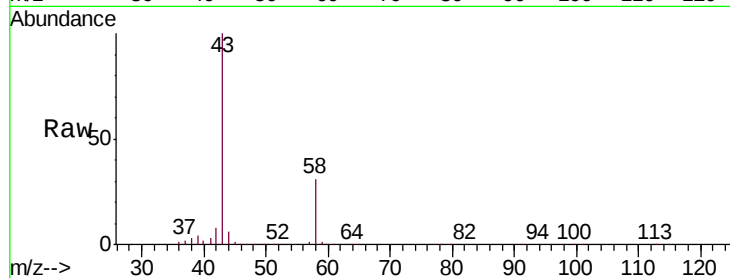
VSTD02033

Tgt Ion: 43 Resp: 389599

Ion Ratio Lower Upper

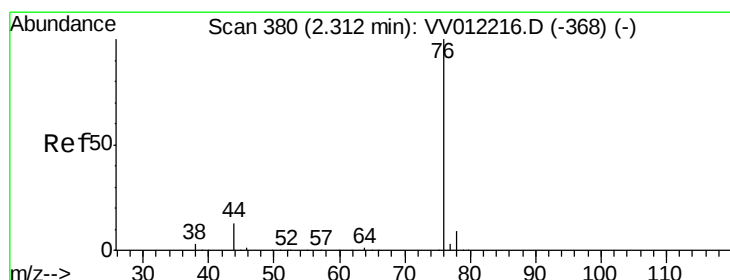
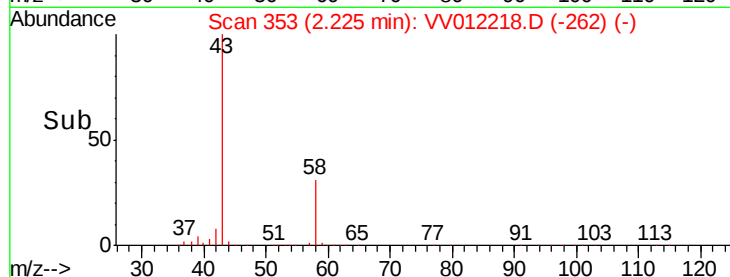
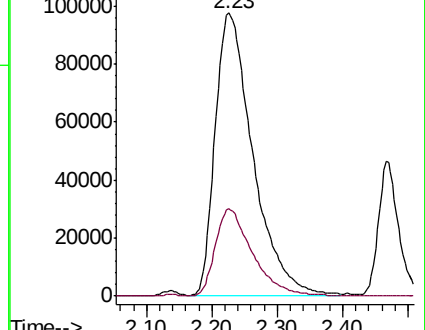
43 100

58 30.8 0.0 59.4



Abundance Ion 43.05 (42.75 to 43.75): VV012216.D (-335) (-)

Ion 58.05 (57.75 to 58.75): VV012216.D (-335) (-)



#14

Carbon disulfide

Concen: 29.842 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV012218.D

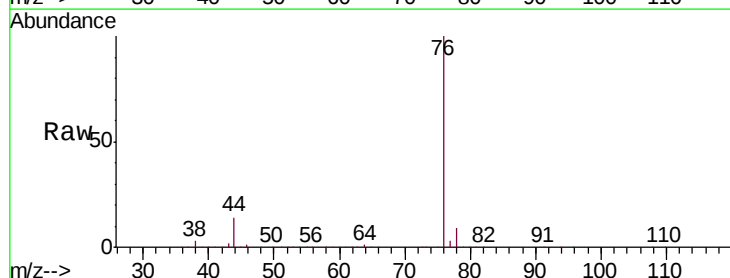
Acq: 13 Aug 2019 16:23

Tgt Ion: 76 Resp: 802927

Ion Ratio Lower Upper

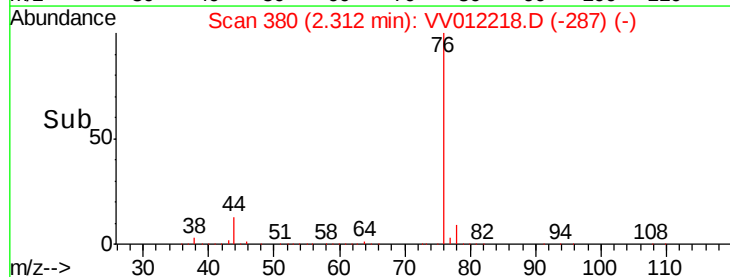
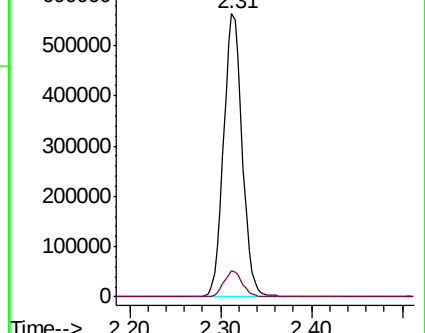
76 100

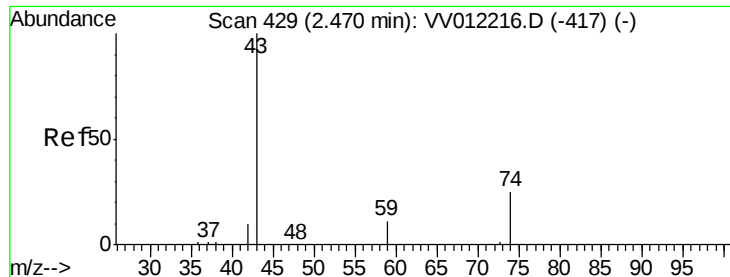
78 9.1 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VV012216.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV012216.D (-368) (-)





#15

Methyl Acetate

Concen: 28.351 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampled :

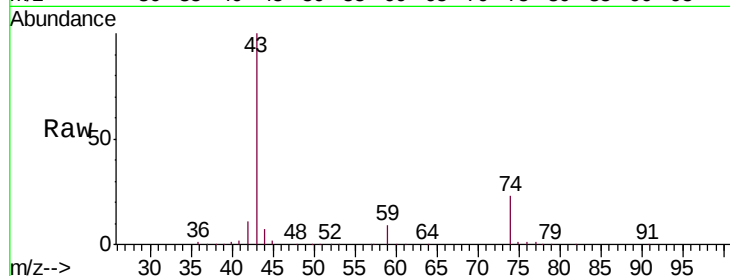
VSTD02033

Tgt Ion: 43 Resp: 99313

Ion Ratio Lower Upper

43 100

74 23.9 20.3 30.5



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.47

50000

40000

30000

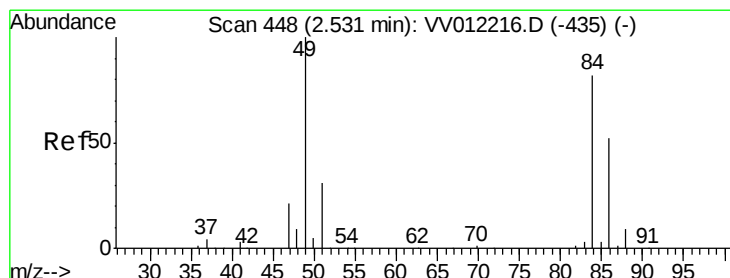
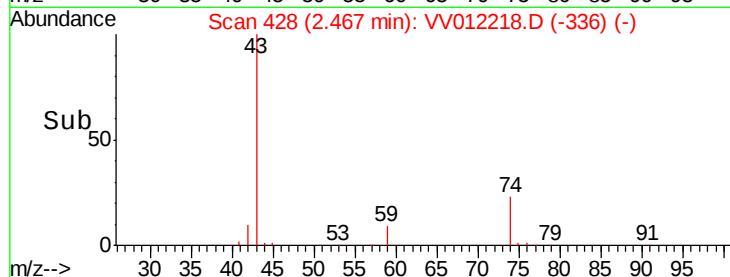
20000

10000

0

Time-->

2.40 2.50 2.60



#16

Methylene chloride

Concen: 25.341 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

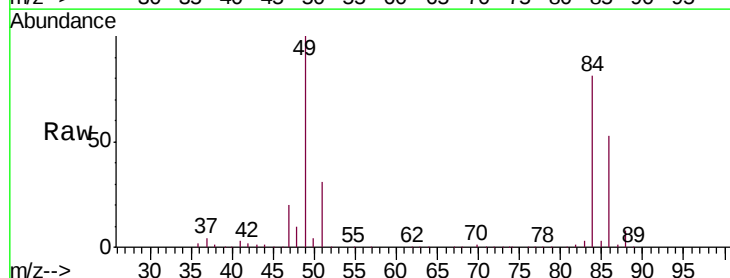
Tgt Ion: 84 Resp: 259917

Ion Ratio Lower Upper

84 100

86 64.8 44.4 82.5

49 122.9 85.1 158.1



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

250000

200000

150000

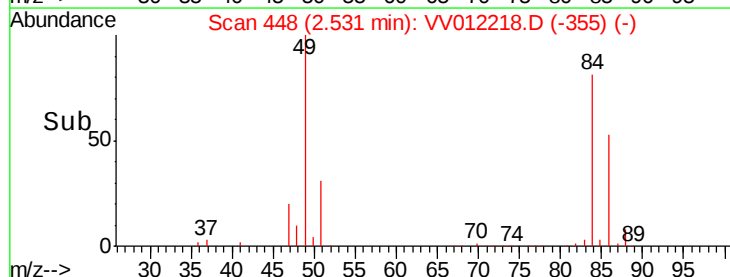
100000

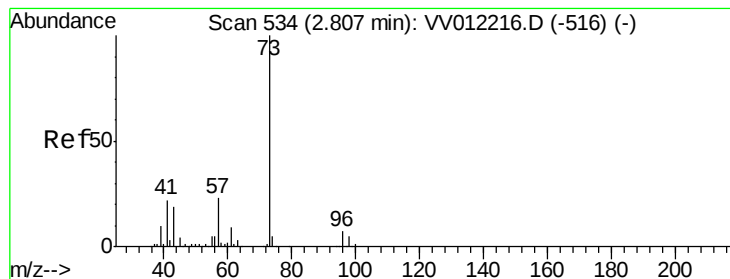
50000

0

Time-->

2.45 2.50 2.55 2.60 2.65





#17

Methyl tert-butyl Ether

Concen: 23.324 ug/L

RT: 2.81 min Scan# 534

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

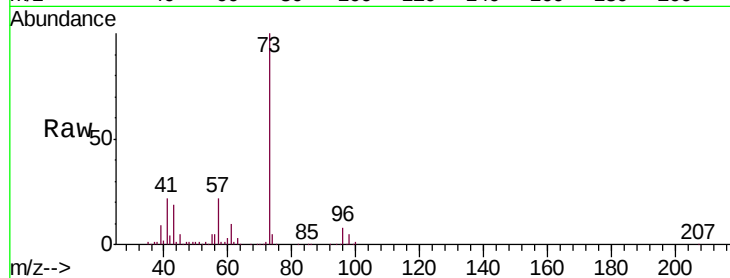
Tgt Ion: 73 Resp: 745254

Ion Ratio Lower Upper

73 100

43 19.0 15.4 23.0

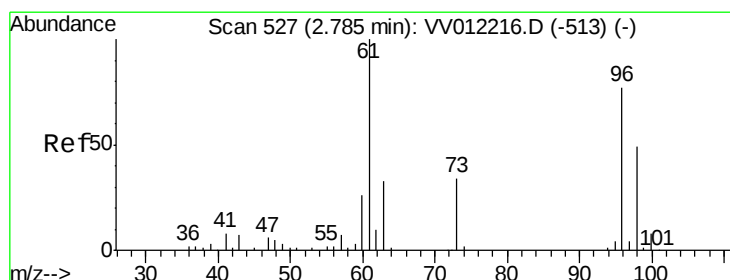
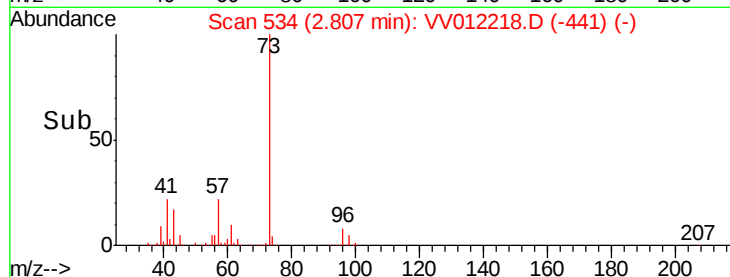
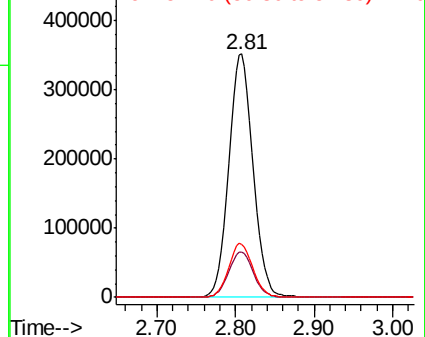
57 22.2 17.8 26.6



Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0



#18

trans-1,2-Dichloroethene

Concen: 24.603 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

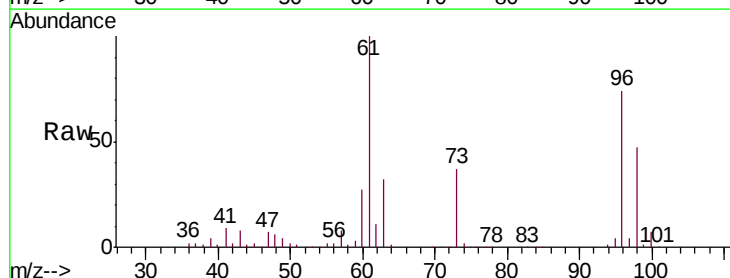
Tgt Ion: 96 Resp: 344422

Ion Ratio Lower Upper

96 100

61 135.4 90.8 168.6

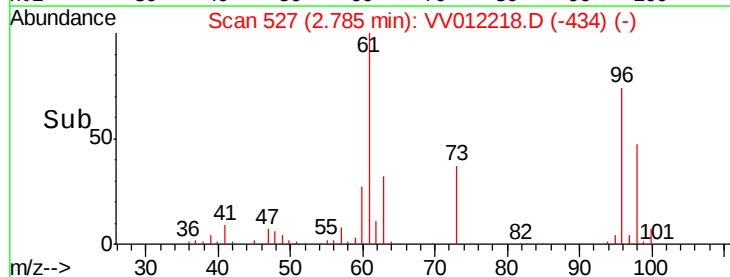
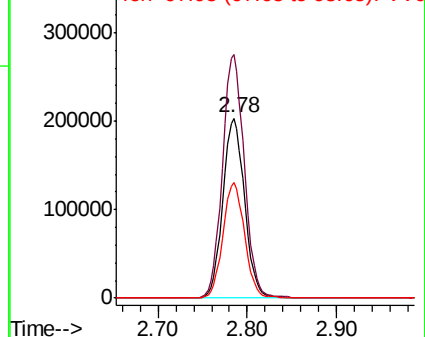
98 64.1 44.4 82.4

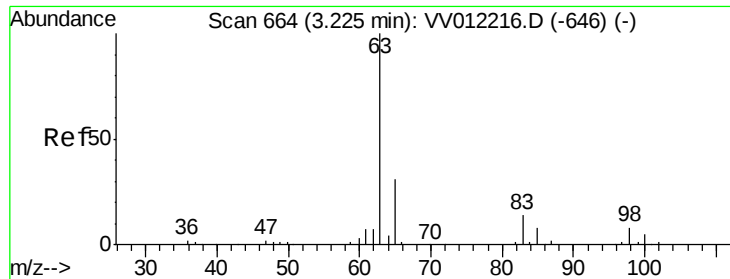


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

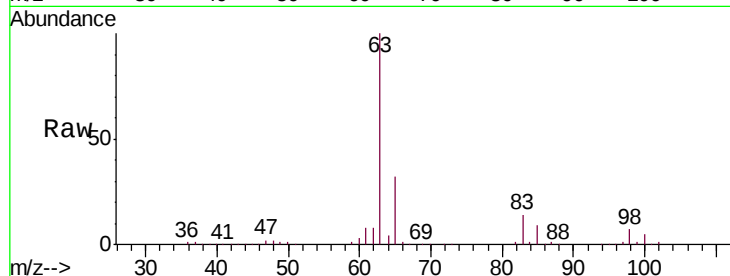




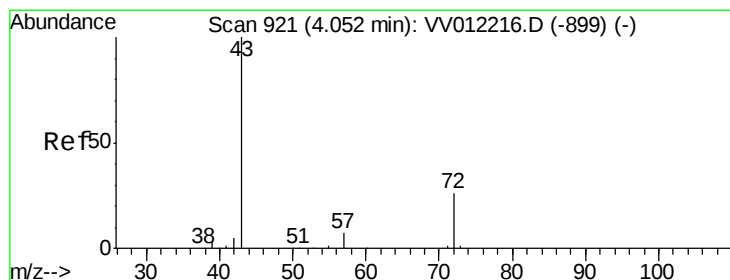
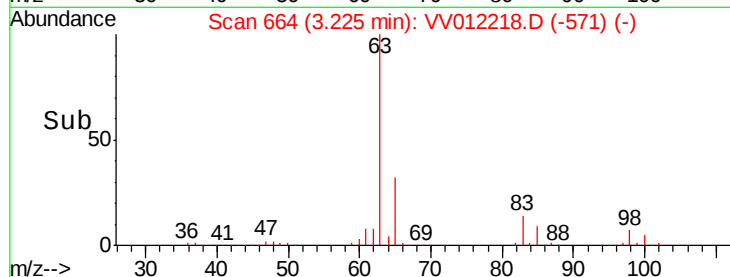
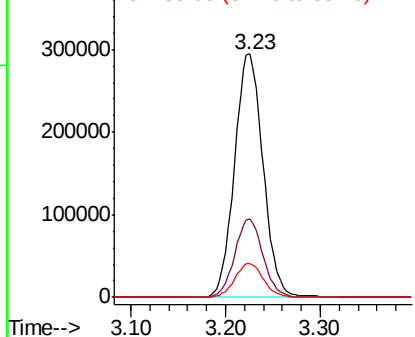
#19
 1,1-Dichloroethane
 Concen: 26.050 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV012218.D
 Acq: 13 Aug 2019 16:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02033

Tgt Ion: 63 Resp: 616847
 Ion Ratio Lower Upper
 63 100
 65 32.1 21.7 40.3
 83 13.8 10.1 18.9

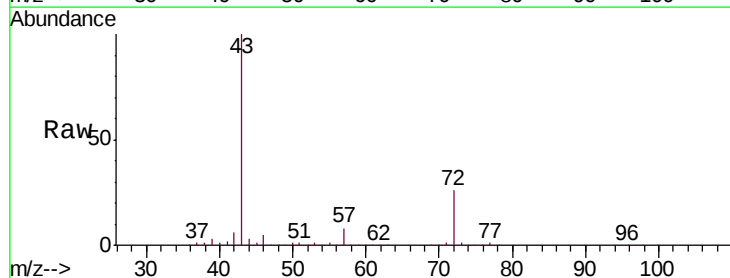


Abundance Ion 63.10 (62.80 to 63.80): VV0
 Ion 65.10 (64.80 to 65.80): VV0
 Ion 83.05 (82.75 to 83.75): VV0

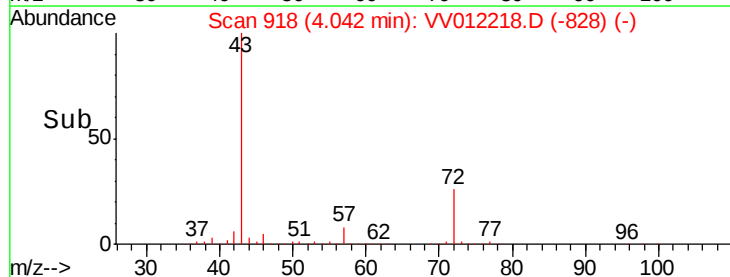
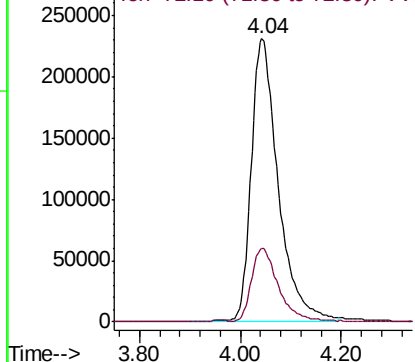


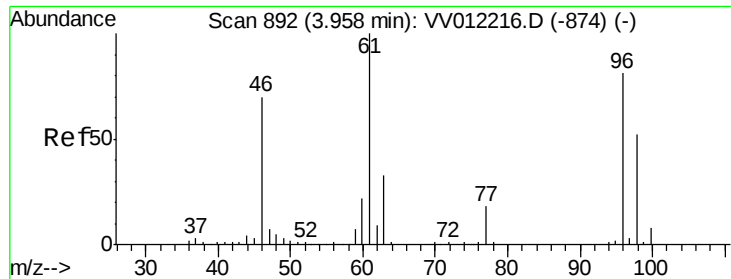
#21
 2-Butanone
 Concen: 303.249 ug/L
 RT: 4.04 min Scan# 918
 Delta R.T. -0.01 min
 Lab File: VV012218.D
 Acq: 13 Aug 2019 16:23

Tgt Ion: 43 Resp: 862228
 Ion Ratio Lower Upper
 43 100
 72 25.6 12.9 38.7



Abundance Ion 43.05 (42.75 to 43.75): VV0
 Ion 72.10 (71.80 to 72.80): VV0



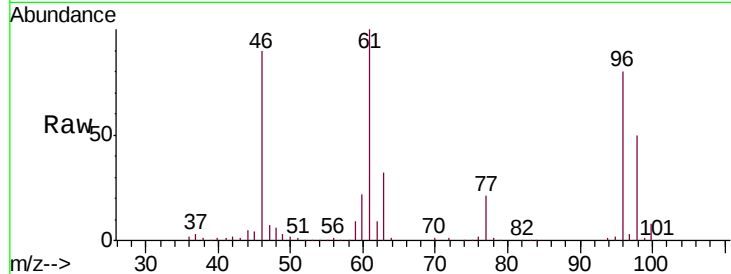


#22

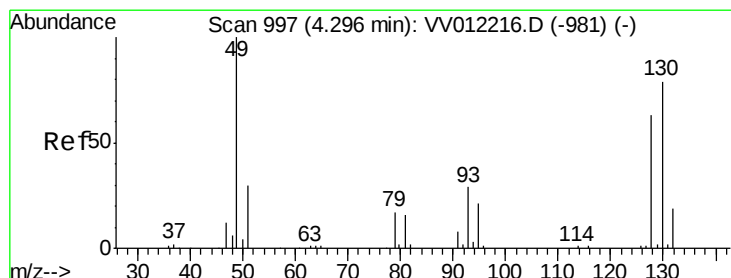
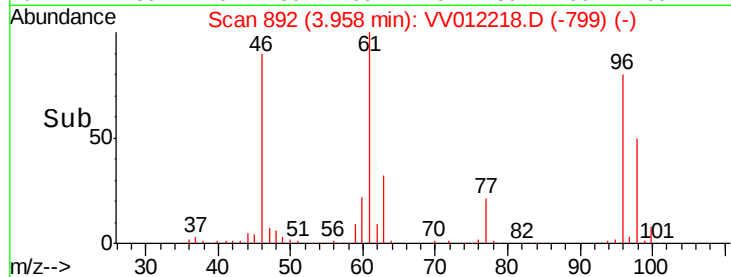
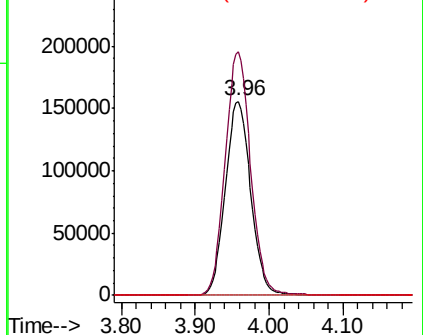
cis-1,2-Dichloroethene
 Concen: 24.070 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV012218.D
 Acq: 13 Aug 2019 16:23

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02033

Tgt Ion: 96 Resp: 374130
 Ion Ratio Lower Upper
 96 100
 61 125.6 86.0 159.6
 68 0.0 0.0 0.0



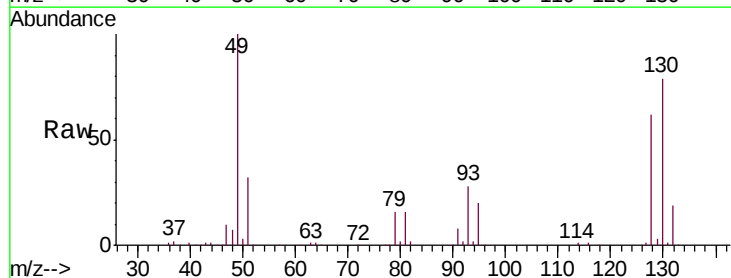
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



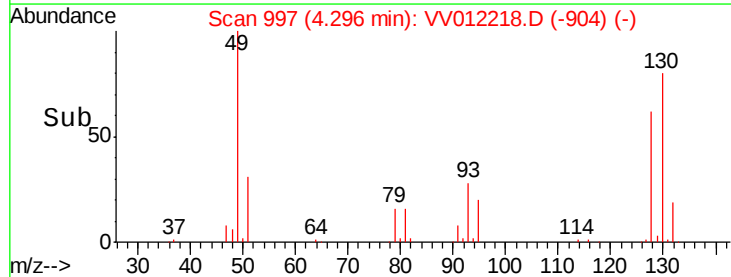
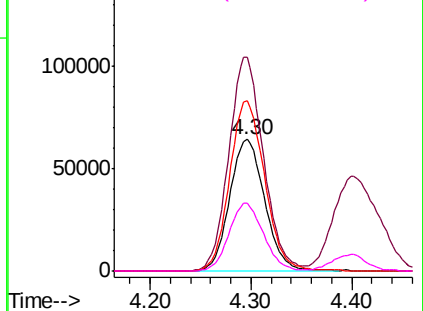
#23

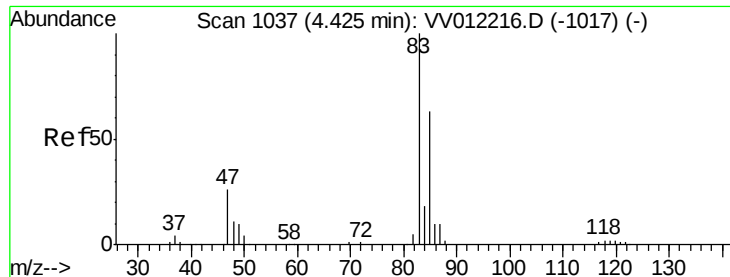
Bromochloromethane
 Concen: 21.383 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VV012218.D
 Acq: 13 Aug 2019 16:23

Tgt Ion: 128 Resp: 155303
 Ion Ratio Lower Upper
 128 100
 49 162.5 111.5 207.1
 130 129.1 87.4 162.4
 51 51.4 38.2 57.2



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0

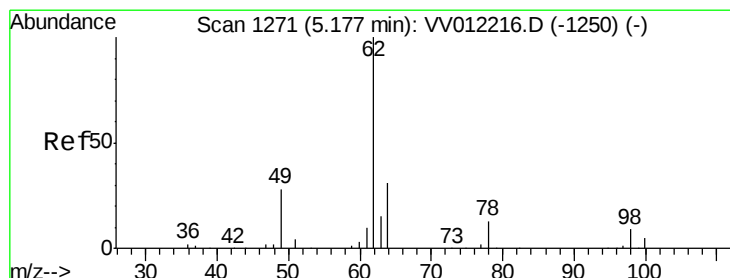
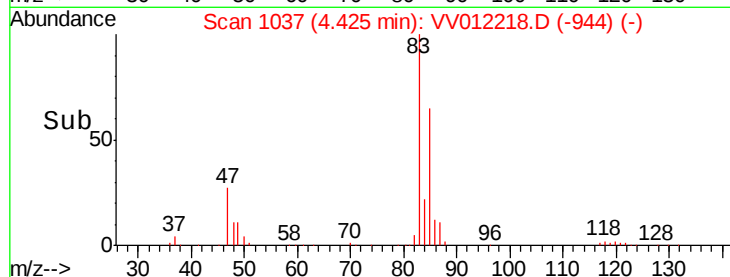
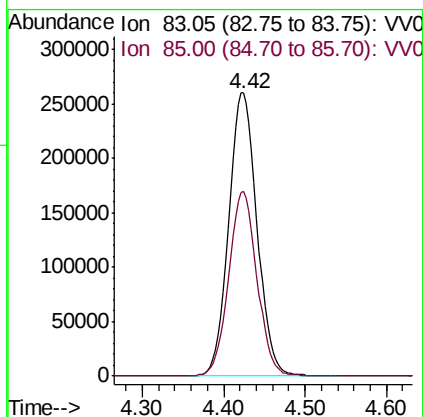
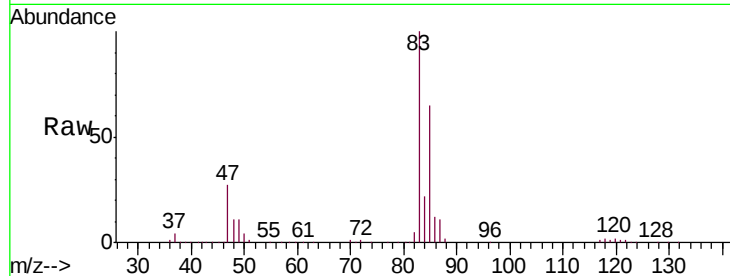




#25
Chloroform
Concen: 21.548 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV012218.D
Acq: 13 Aug 2019 16:23

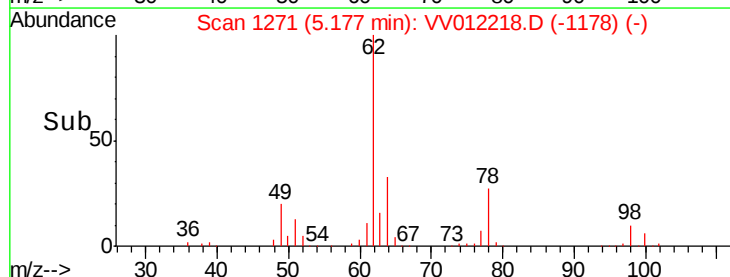
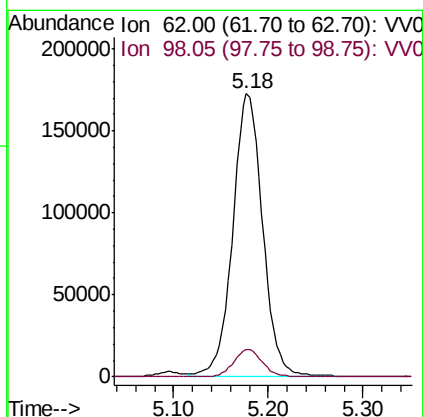
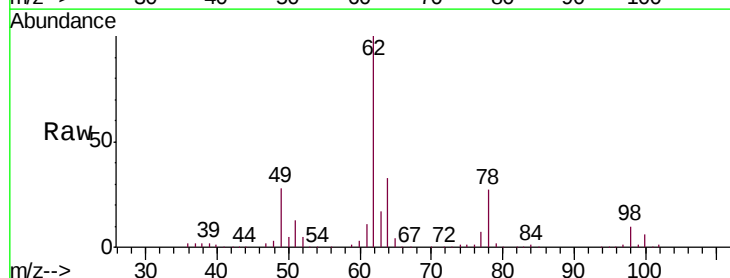
Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

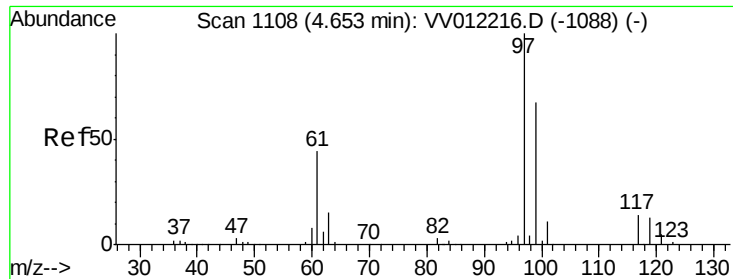
Tgt Ion: 83 Resp: 631865
Ion Ratio Lower Upper
83 100
85 65.1 44.3 82.3



#27
1,2-Dichloroethane
Concen: 21.737 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV012218.D
Acq: 13 Aug 2019 16:23

Tgt Ion: 62 Resp: 377218
Ion Ratio Lower Upper
62 100
98 9.8 7.5 11.3

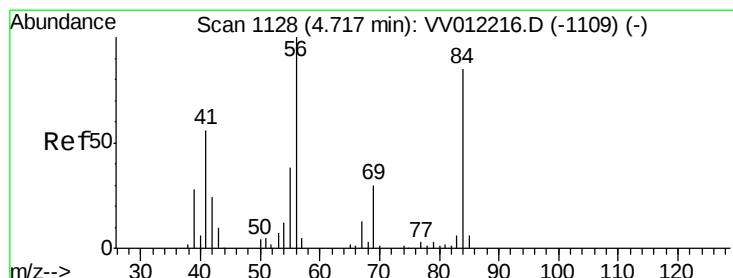
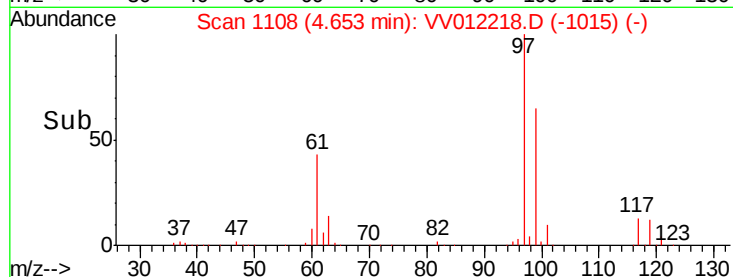
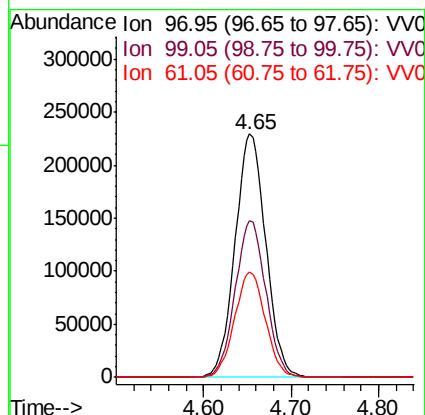
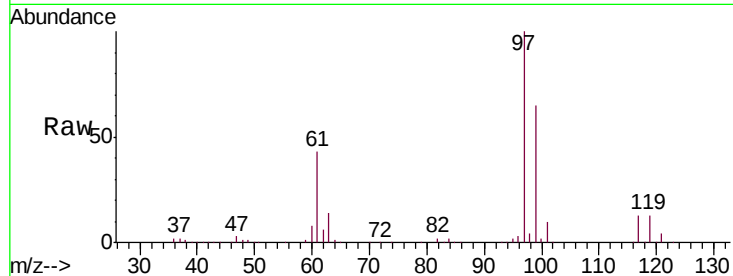




#29
 1,1,1-Trichloroethane
 Concen: 20.497 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. -0.00 min
 Lab File: VV012218.D
 Acq: 13 Aug 2019 16:23

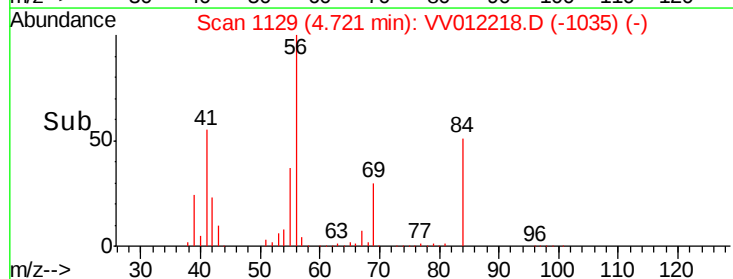
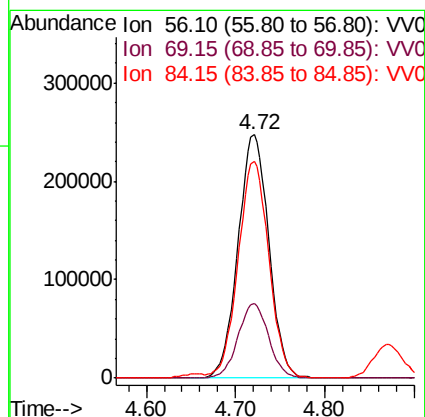
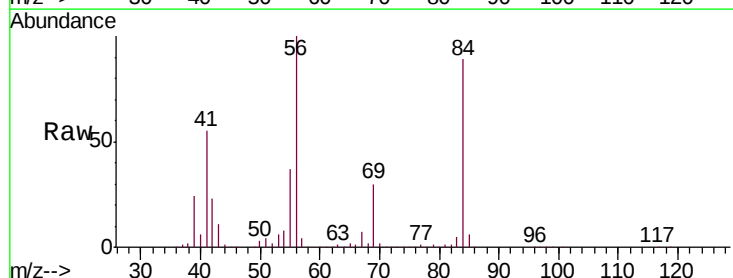
Instrument :
 MSVOA_V
 ClientSampleID :
 VSTD02033

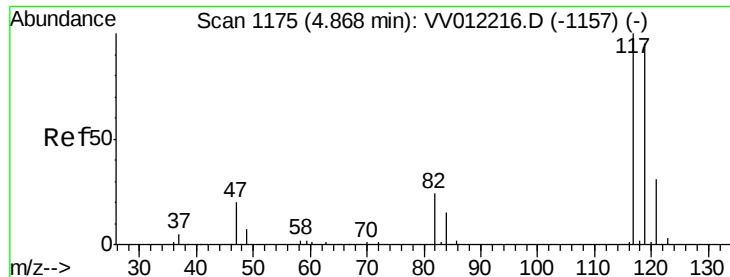
Tgt Ion: 97 Resp: 559542
 Ion Ratio Lower Upper
 97 100
 99 64.3 52.1 78.1
 61 43.8 35.4 53.0



#30
 Cyclohexane
 Concen: 28.201 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. 0.00 min
 Lab File: VV012218.D
 Acq: 13 Aug 2019 16:23

Tgt Ion: 56 Resp: 593601
 Ion Ratio Lower Upper
 56 100
 69 30.5 24.6 36.8
 84 88.9 71.0 106.6





#31

Carbon tetrachloride

Concen: 19.449 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

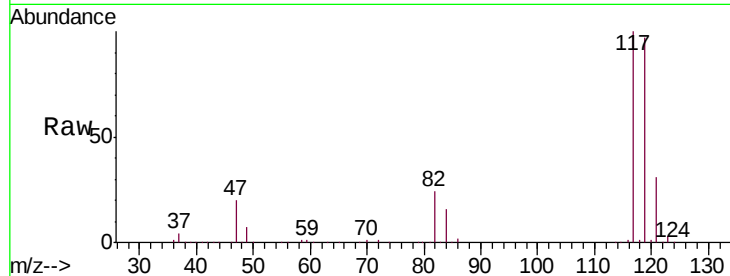
VSTD02033

Tgt Ion:117 Resp: 507790

Ion Ratio Lower Upper

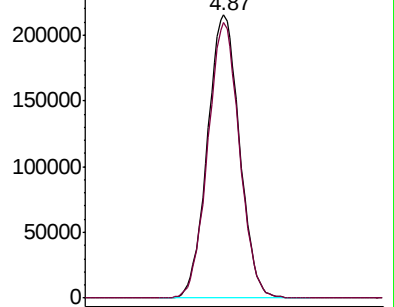
117 100

119 96.0 77.9 116.9

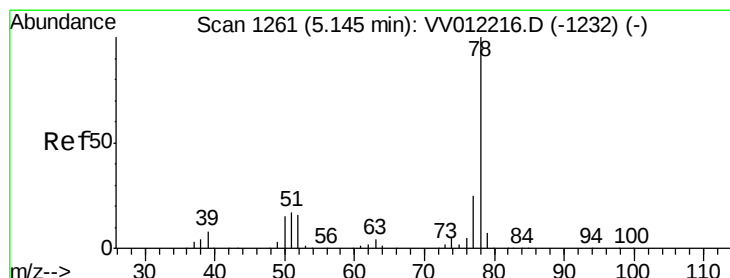
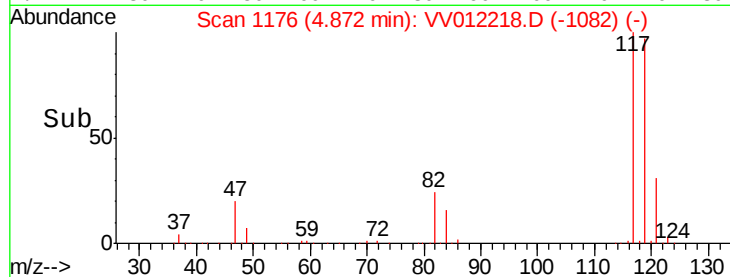


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



Time-->



#33

Benzene

Concen: 24.799 ug/L

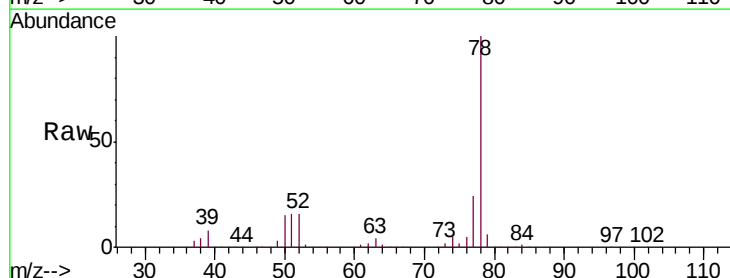
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

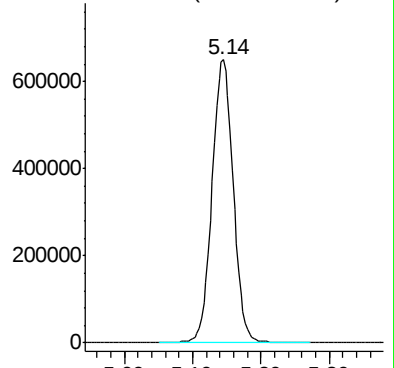
Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

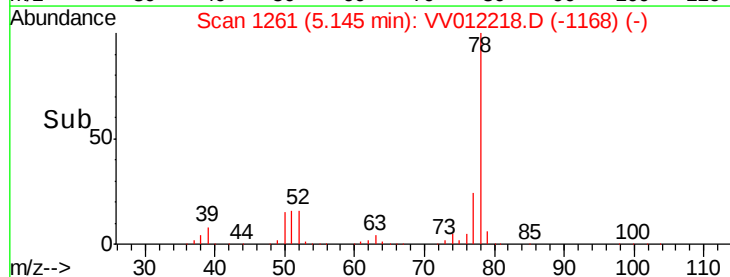
Tgt Ion: 78 Resp: 1403492

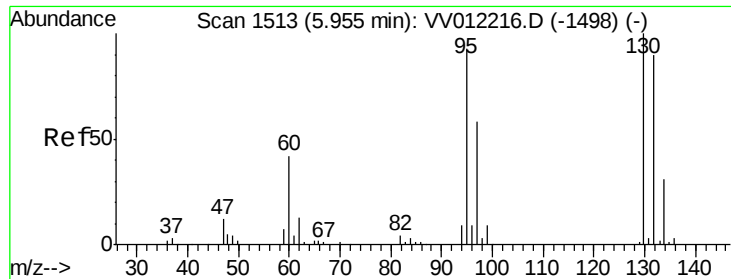


Abundance Ion 78.10 (77.80 to 78.80): VV0



Time-->





#34

Trichloroethene

Concen: 22.252 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

Tgt Ion: 95 Resp: 364815

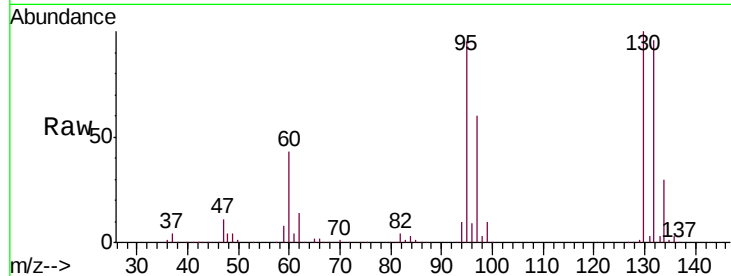
Ion Ratio Lower Upper

95 100

97 63.2 43.3 80.3

132 101.0 67.5 125.3

130 105.0 74.9 139.1

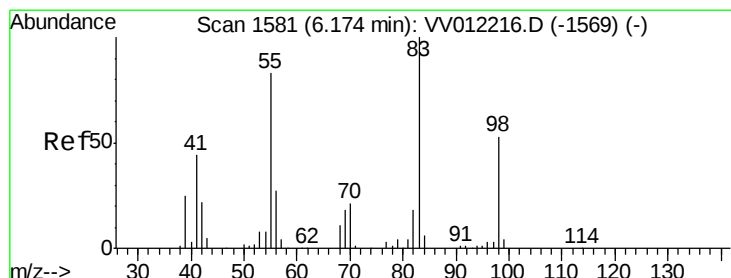
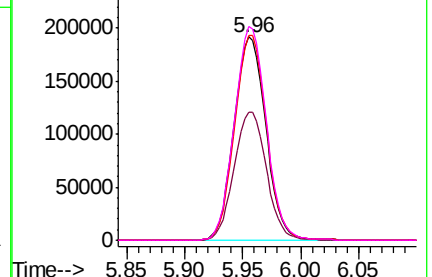
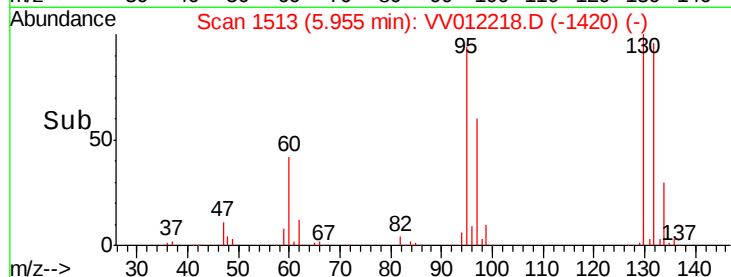


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 24.388 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

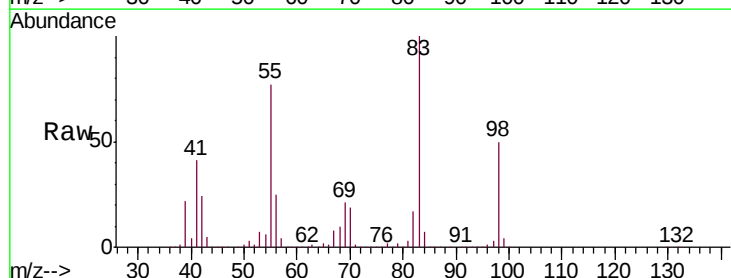
Tgt Ion: 83 Resp: 629169

Ion Ratio Lower Upper

83 100

55 76.1 62.2 93.2

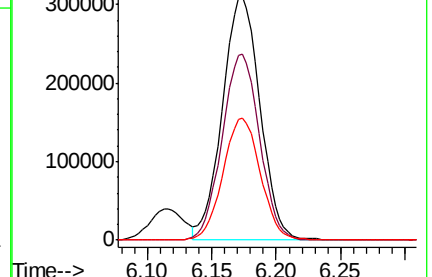
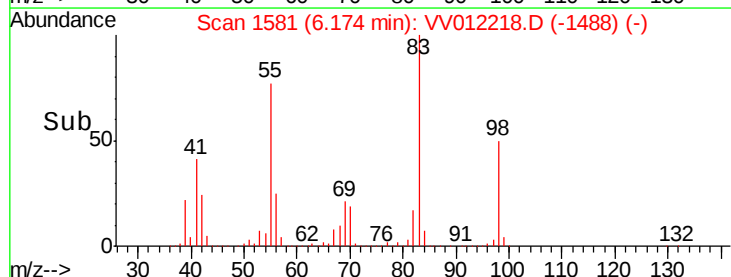
98 49.7 39.2 58.8

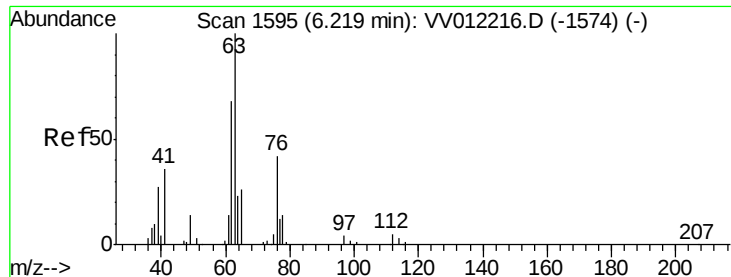


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 26.647 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

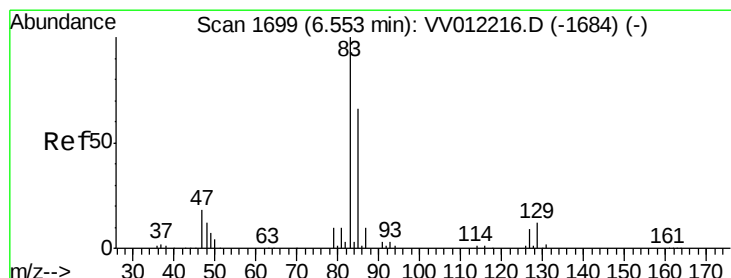
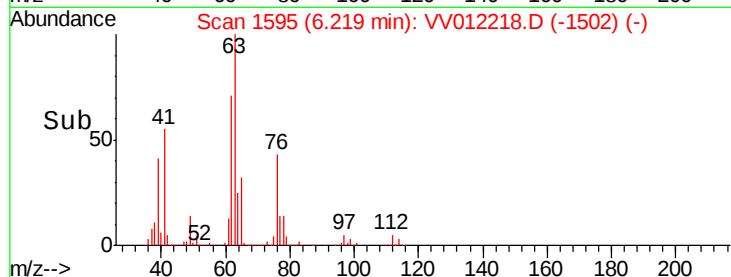
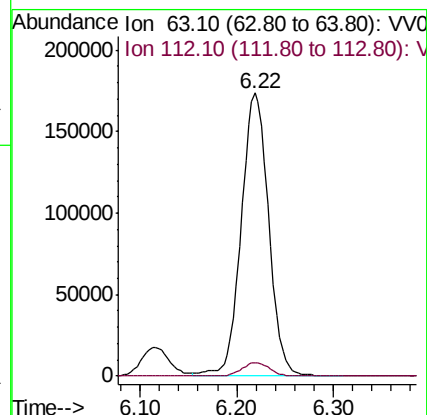
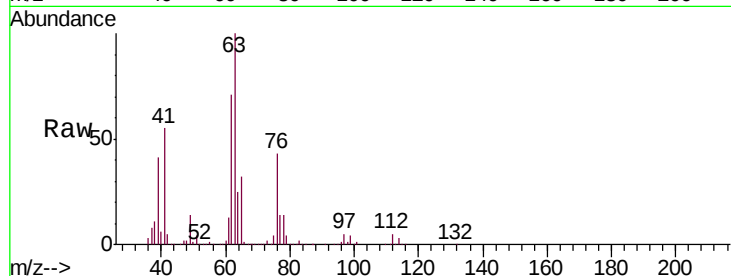
VSTD02033

Tgt Ion: 63 Resp: 340897

Ion Ratio Lower Upper

63 100

112 4.8 3.8 5.8



#38

Bromodichloromethane

Concen: 21.845 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

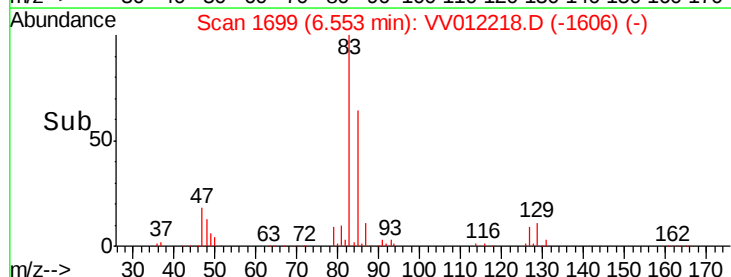
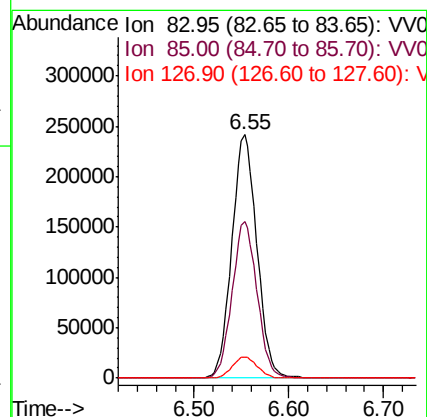
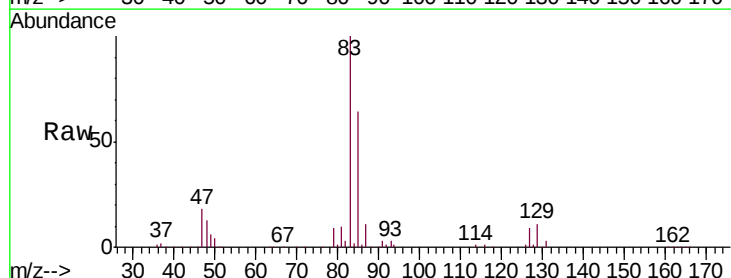
Tgt Ion: 83 Resp: 444355

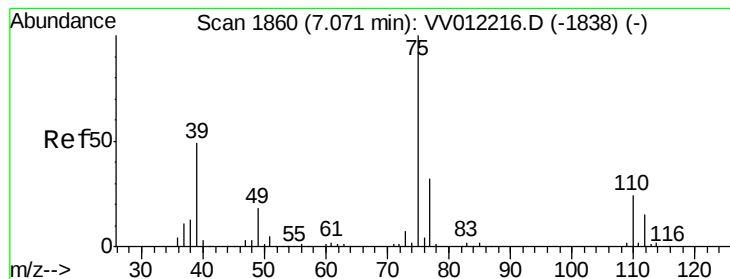
Ion Ratio Lower Upper

83 100

85 64.4 45.9 85.3

127 8.8 7.4 11.2





#39

cis-1,3-Dichloropropene

Concen: 24.077 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

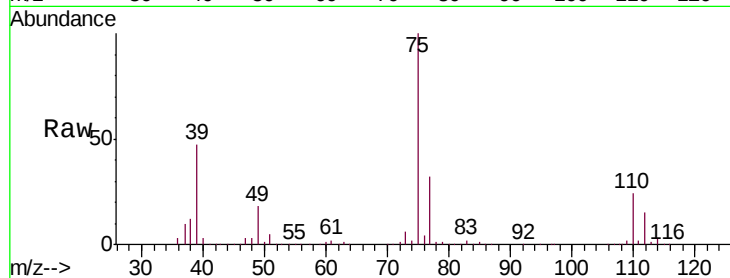
VSTD02033

Tgt Ion: 75 Resp: 525295

Ion Ratio Lower Upper

75 100

77 32.1 22.2 41.2



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.07

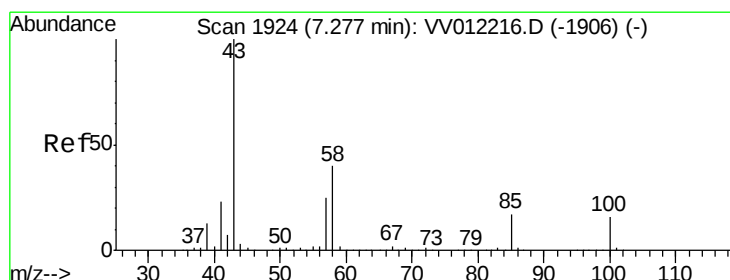
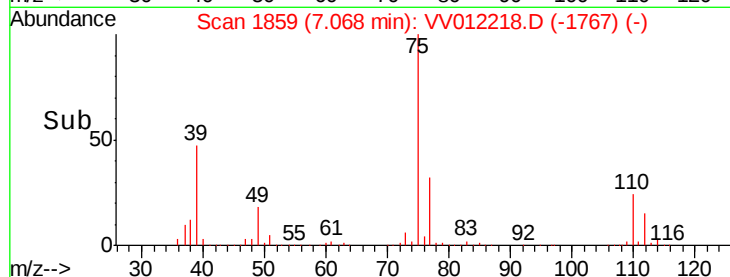
300000

200000

100000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 286.254 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

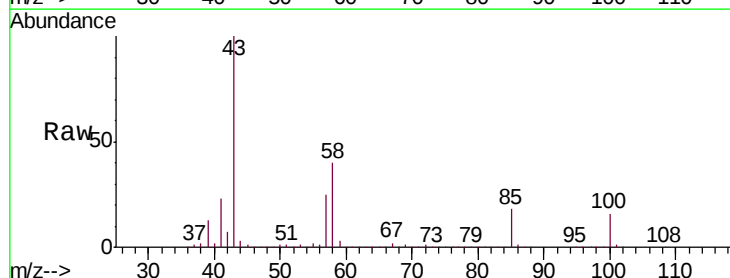
Tgt Ion: 43 Resp: 2070414

Ion Ratio Lower Upper

43 100

58 39.4 30.7 46.1

100 16.2 12.5 18.7



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0

7.27

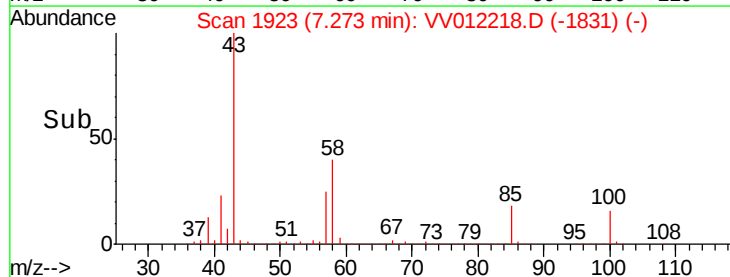
1500000

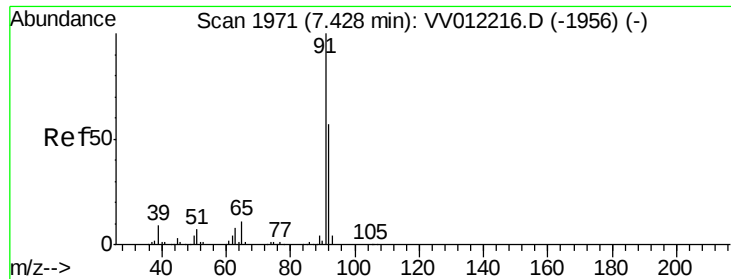
1000000

500000

0

Time-->





#42

Toluene

Concen: 23.659 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

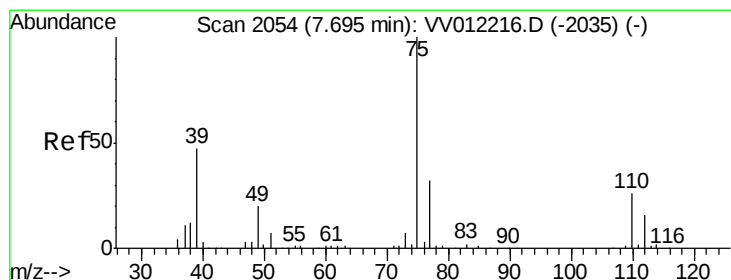
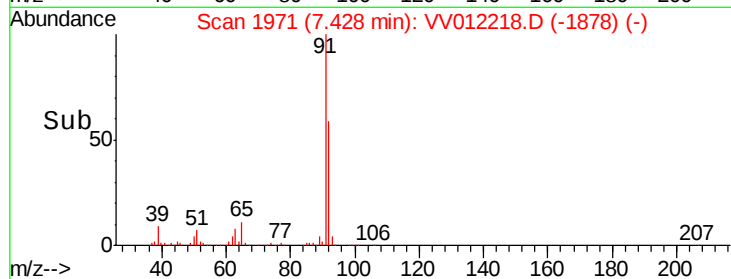
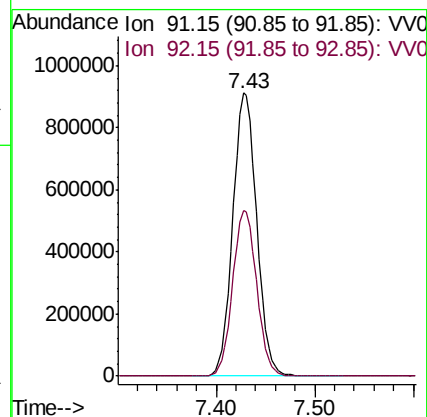
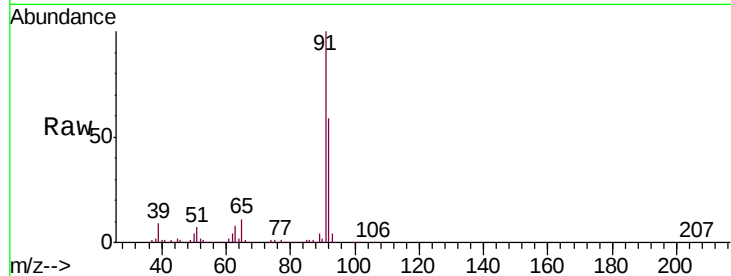
VSTD02033

Tgt Ion: 91 Resp: 1536202

Ion Ratio Lower Upper

91 100

92 58.6 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 23.927 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012218.D

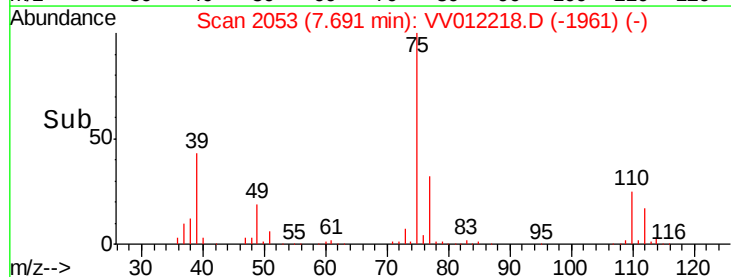
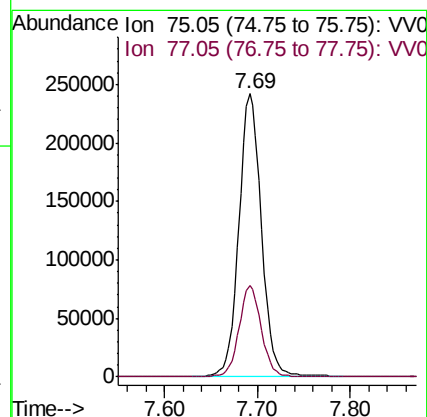
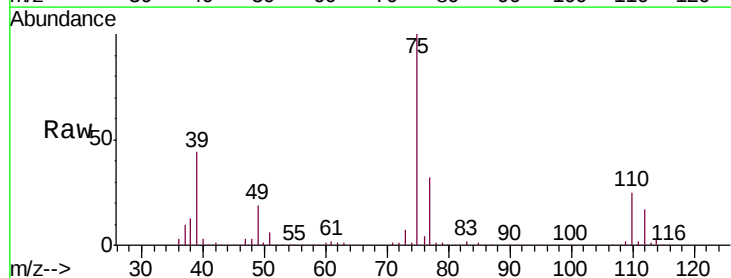
Acq: 13 Aug 2019 16:23

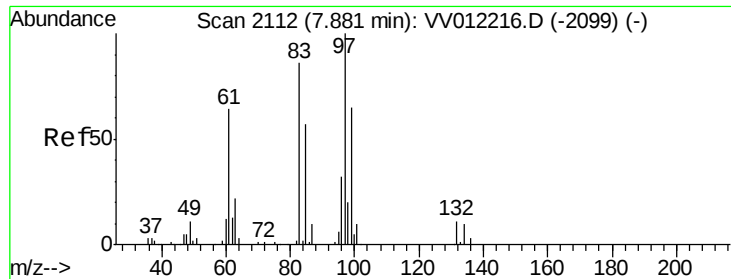
Tgt Ion: 75 Resp: 409138

Ion Ratio Lower Upper

75 100

77 32.1 22.5 41.7

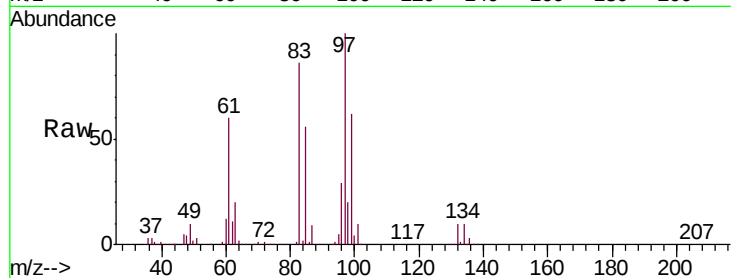




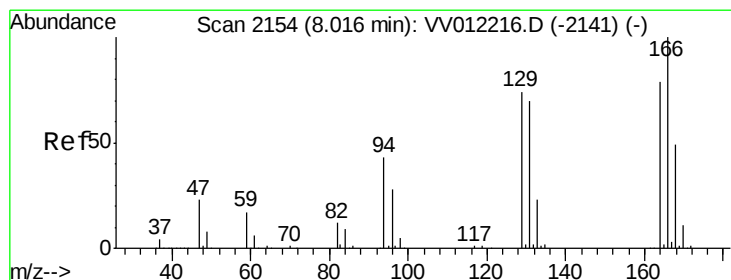
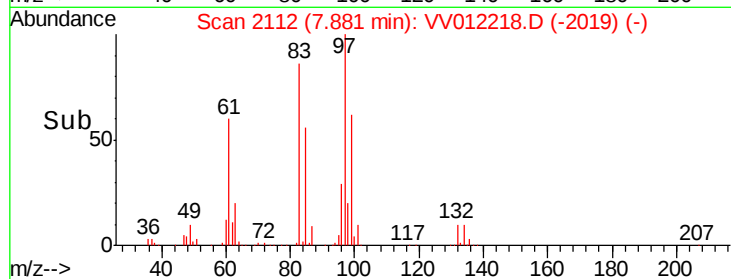
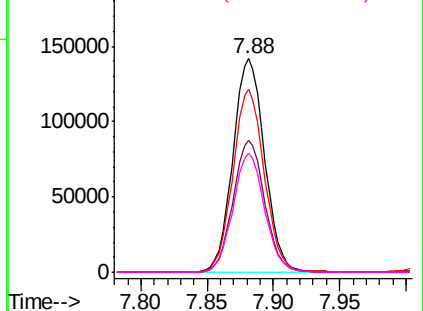
#45
 1,1,2-Trichloroethane
 Concen: 22.856 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV012218.D
 Acq: 13 Aug 2019 16:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02033

Tgt Ion:	97	Resp:	235370
Ion	Ratio	Lower	Upper
97	100		
99	61.9	45.4	84.2
83	85.8	60.1	111.5
85	55.8	39.8	73.8

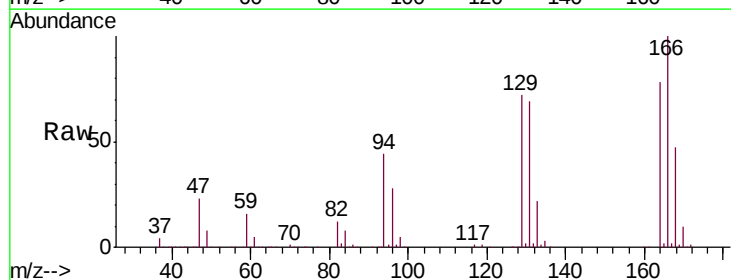


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

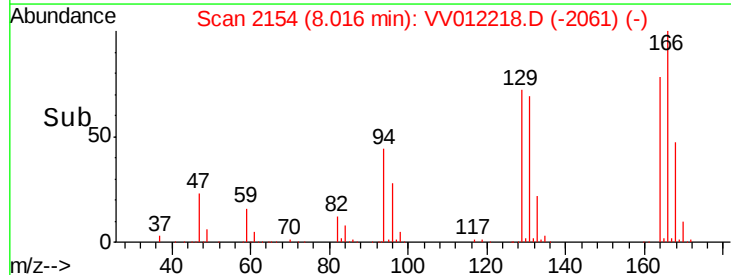
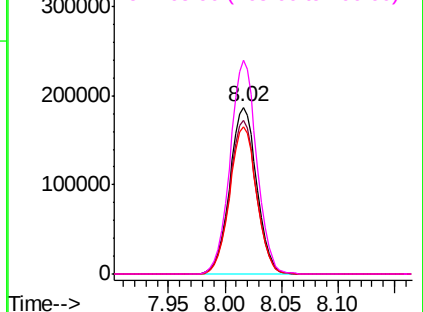


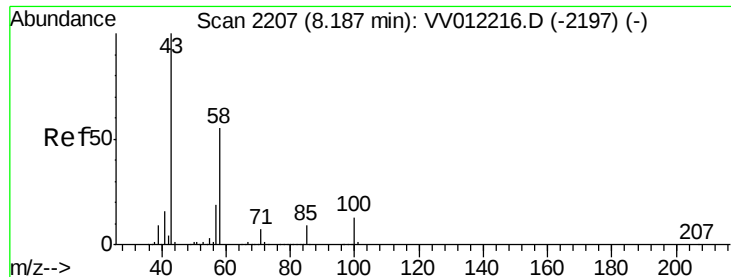
#47
 Tetrachloroethene
 Concen: 20.222 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV012218.D
 Acq: 13 Aug 2019 16:23

Tgt Ion:	164	Resp:	309946
Ion	Ratio	Lower	Upper
164	100		
129	92.0	65.8	122.2
131	88.3	61.9	114.9
166	127.9	88.3	164.1



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

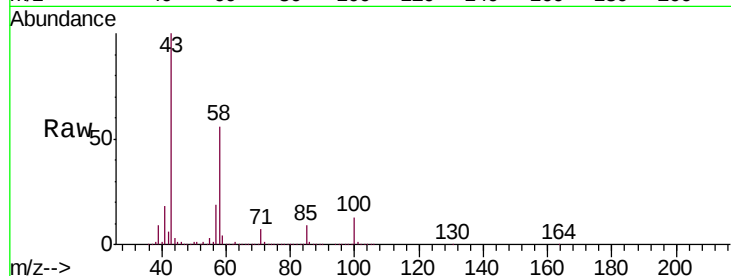




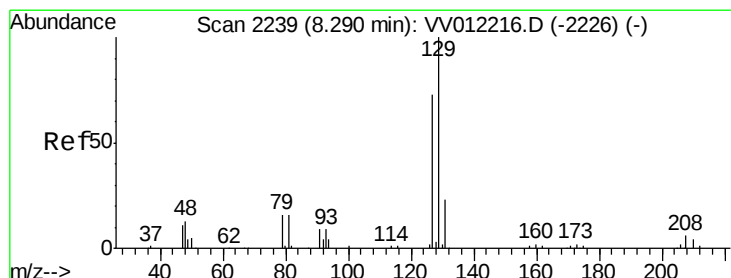
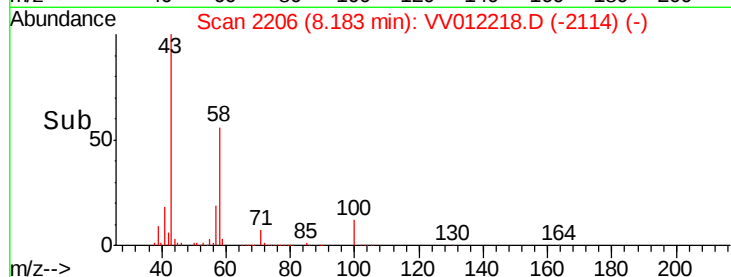
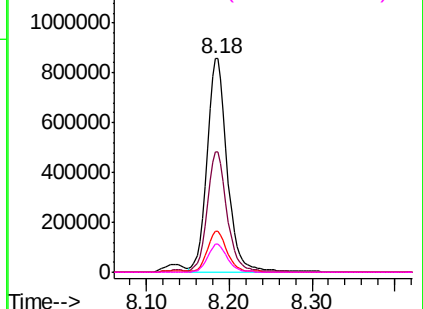
#48
2-Hexanone
Concen: 287.702 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV012218.D
Acq: 13 Aug 2019 16:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

Tgt Ion: 43 Resp: 1464204
Ion Ratio Lower Upper
43 100
58 55.6 43.0 64.4
57 19.3 14.9 22.3
100 13.0 10.3 15.5

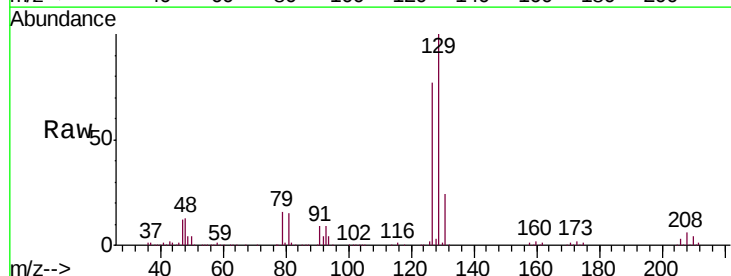


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

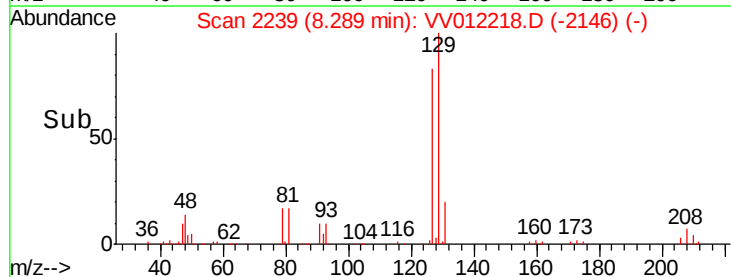
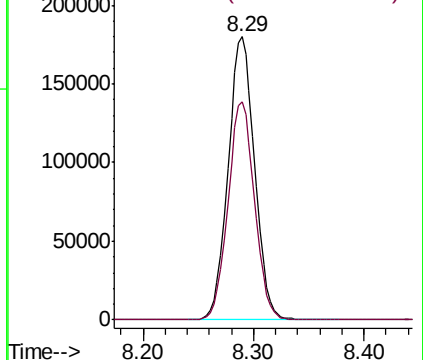


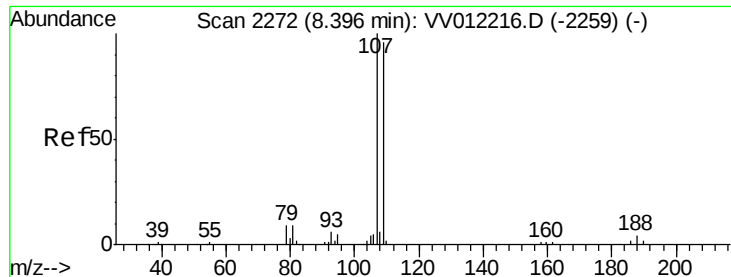
#49
Dibromochloromethane
Concen: 20.272 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012218.D
Acq: 13 Aug 2019 16:23

Tgt Ion: 129 Resp: 299108
Ion Ratio Lower Upper
129 100
127 77.2 51.0 94.8



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

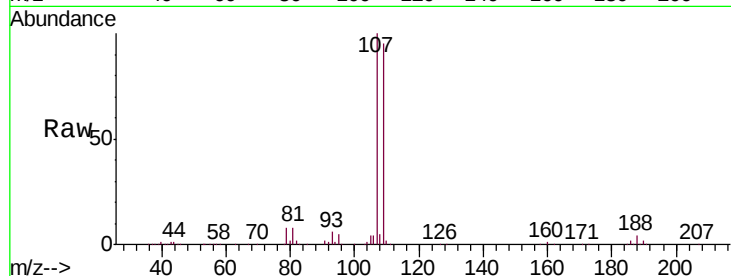




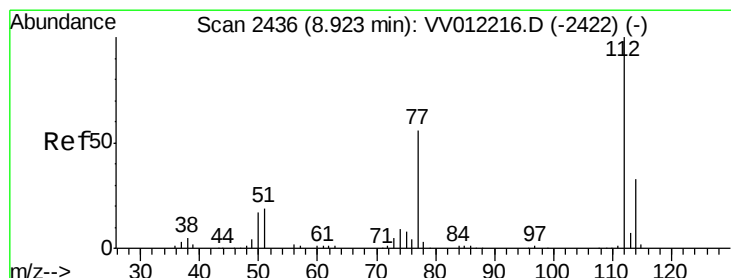
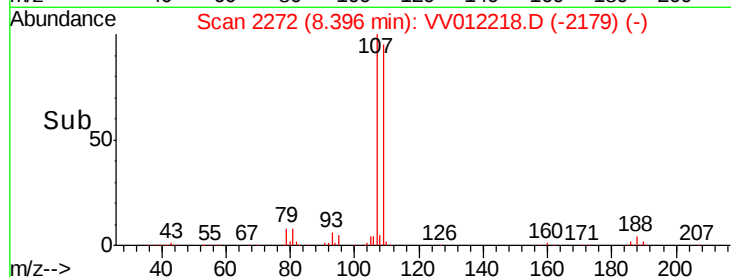
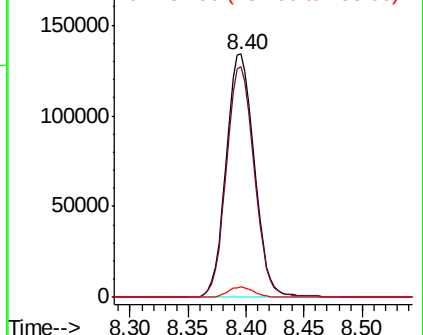
#50
1,2-Dibromoethane
Concen: 22.227 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV012218.D
Acq: 13 Aug 2019 16:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

Tgt Ion:107 Resp: 225264
Ion Ratio Lower Upper
107 100
109 94.8 67.3 125.1
188 4.2 3.4 5.0

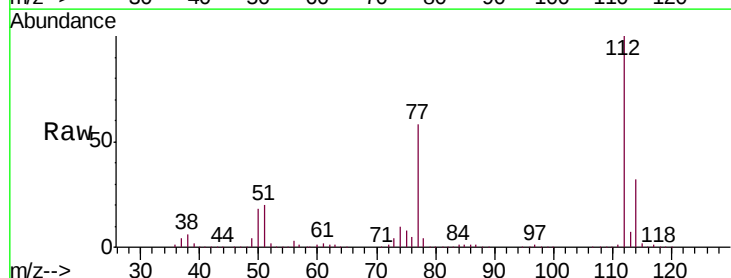


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

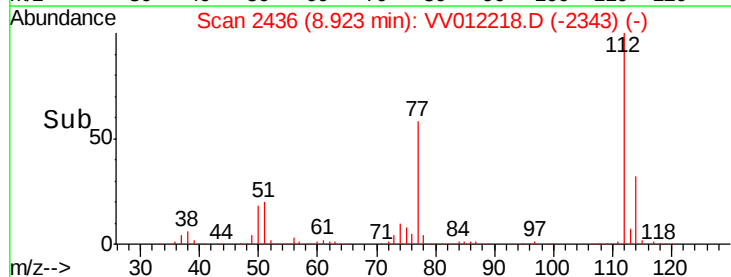
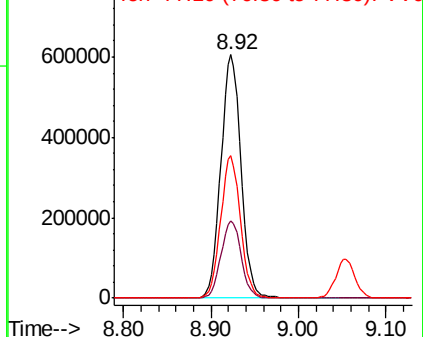


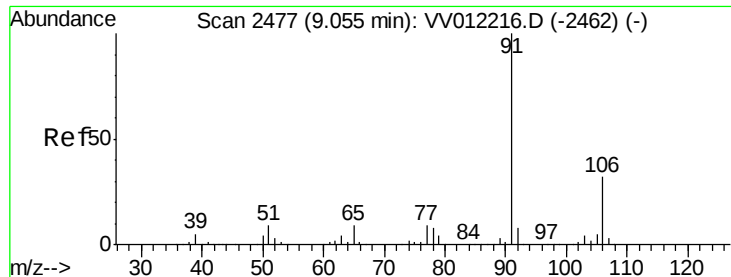
#51
Chlorobenzene
Concen: 22.258 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV012218.D
Acq: 13 Aug 2019 16:23

Tgt Ion:112 Resp: 966935
Ion Ratio Lower Upper
112 100
114 31.8 22.8 42.4
77 58.4 45.4 68.2



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 23.873 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

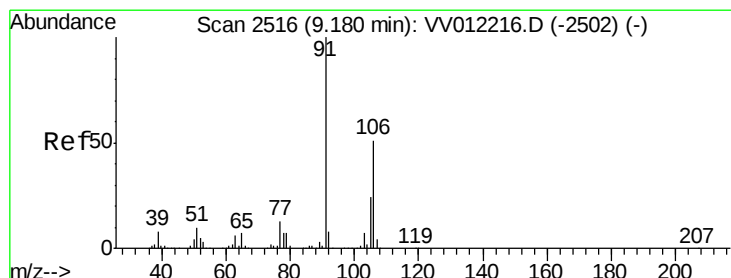
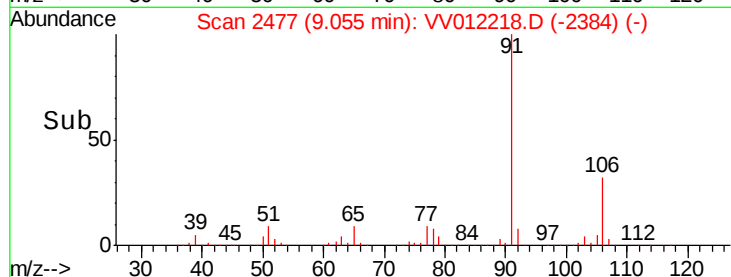
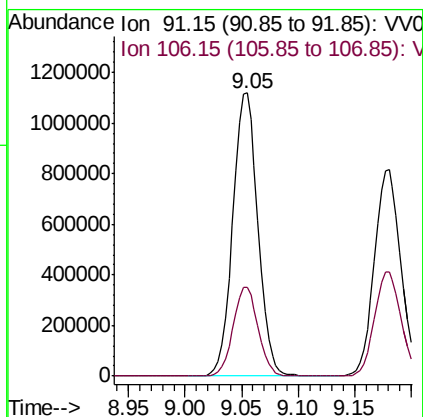
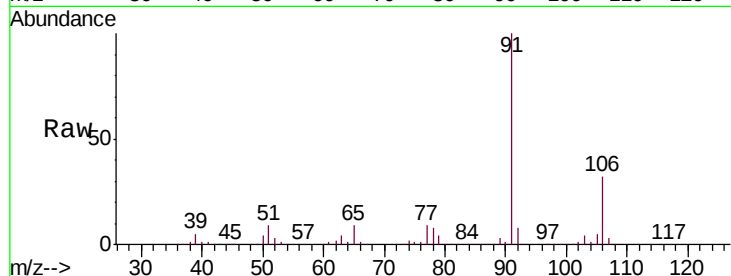
VSTD02033

Tgt Ion: 91 Resp: 1728761

Ion Ratio Lower Upper

91 100

106 31.5 22.3 41.3



#53

m,p-xylene

Concen: 23.599 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012218.D

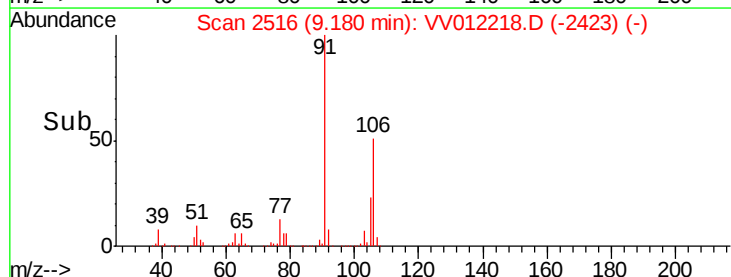
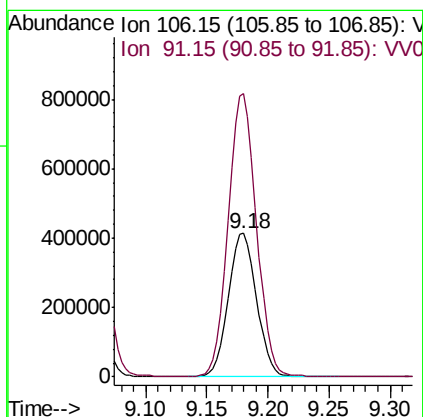
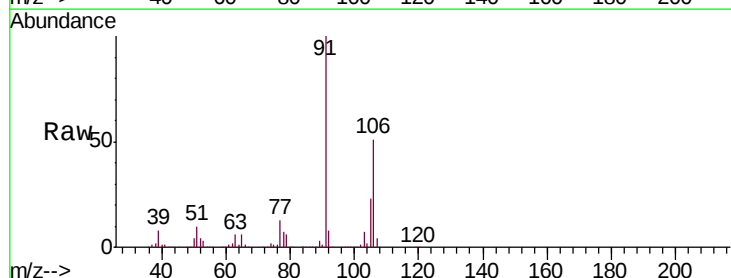
Acq: 13 Aug 2019 16:23

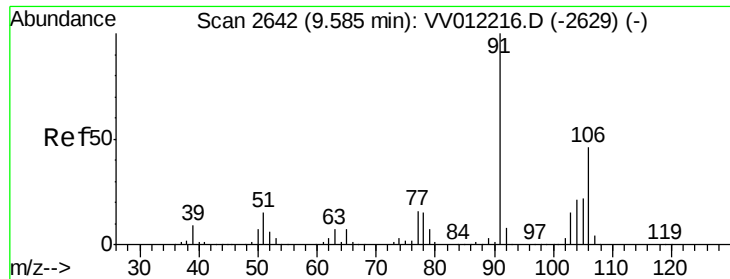
Tgt Ion: 106 Resp: 668208

Ion Ratio Lower Upper

106 100

91 197.2 137.5 255.3





#54

o-xylene

Concen: 23.577 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

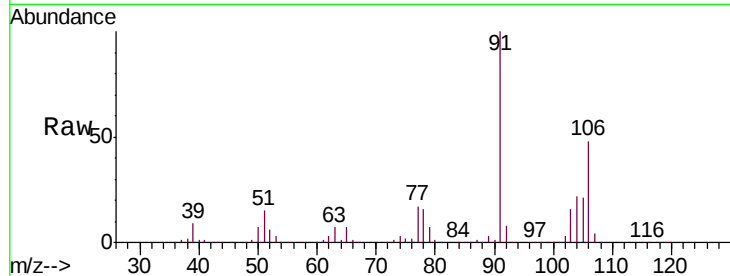
VSTD02033

Tgt Ion:106 Resp: 642938

Ion Ratio Lower Upper

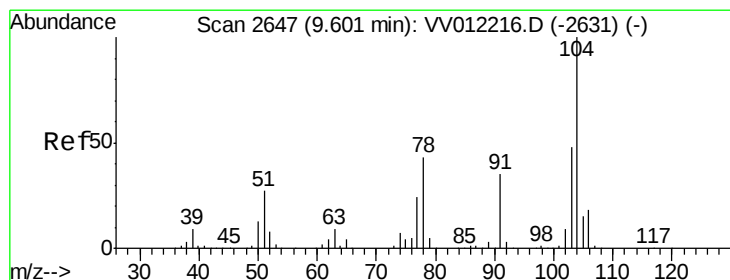
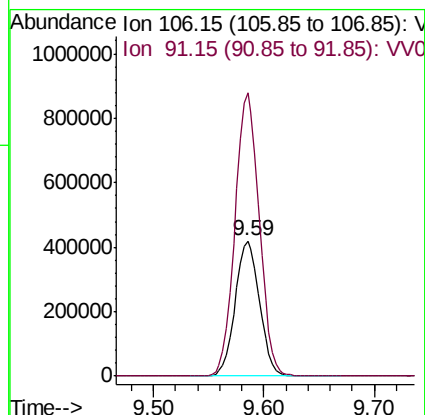
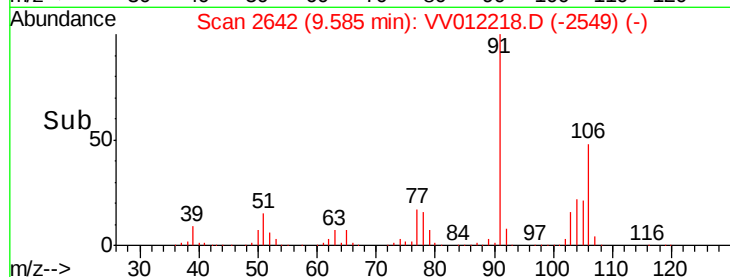
106 100

91 209.4 151.1 280.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 23.871 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012218.D

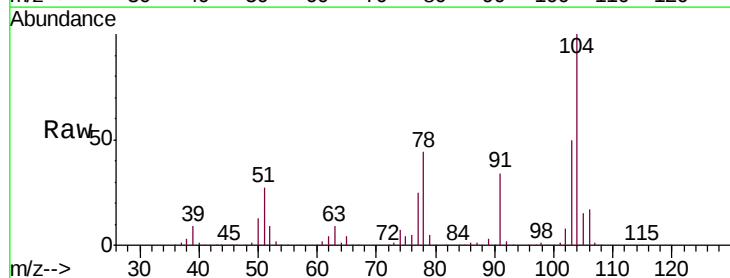
Acq: 13 Aug 2019 16:23

Tgt Ion:104 Resp: 1087230

Ion Ratio Lower Upper

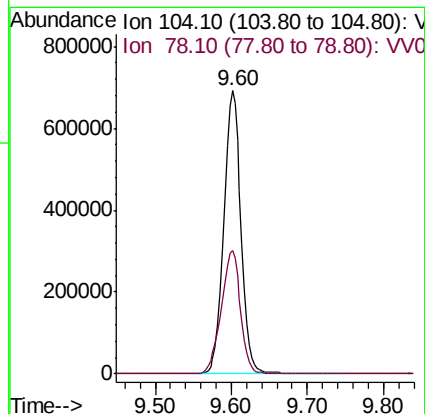
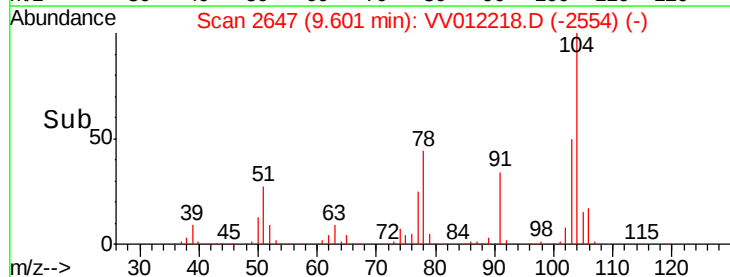
104 100

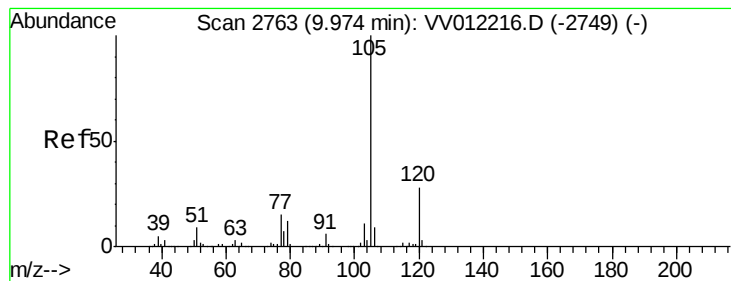
78 43.6 30.3 56.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 22.935 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

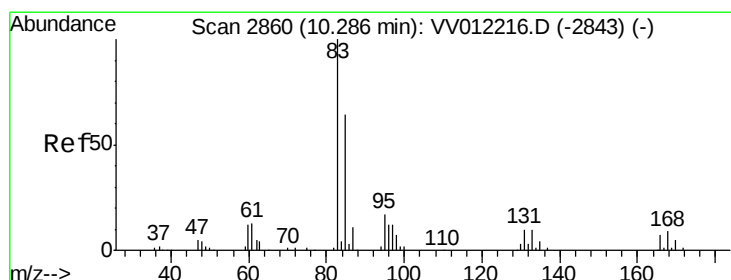
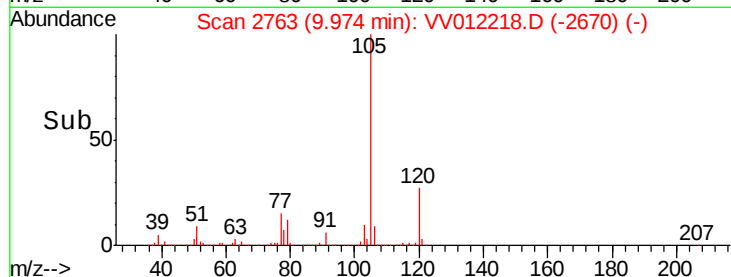
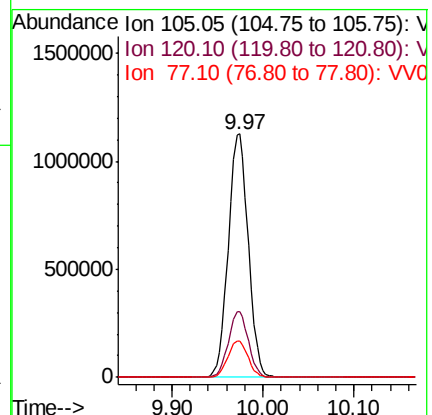
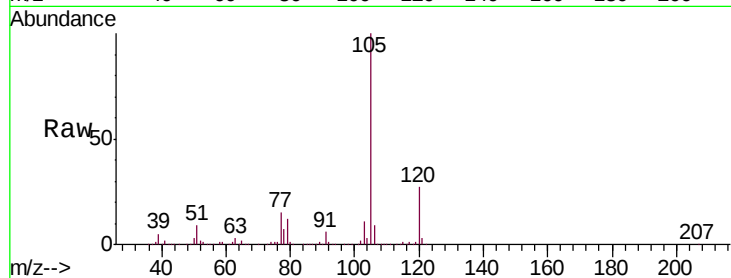
Tgt Ion: 105 Resp: 1717245

Ion Ratio Lower Upper

105 100

120 26.9 22.0 33.0

77 15.2 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 24.231 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

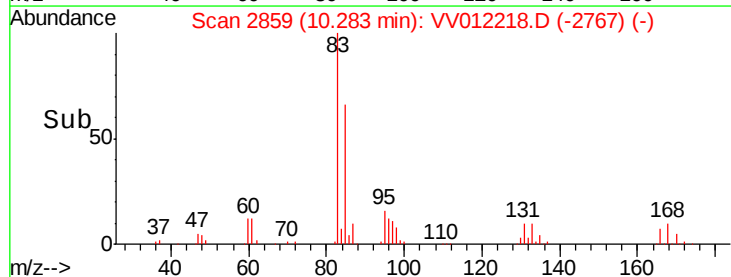
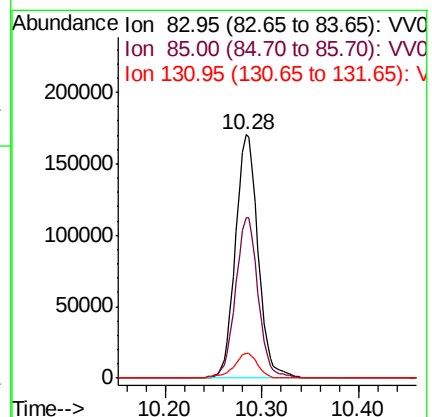
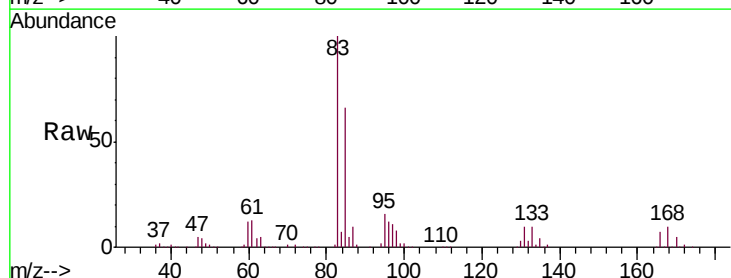
Tgt Ion: 83 Resp: 277423

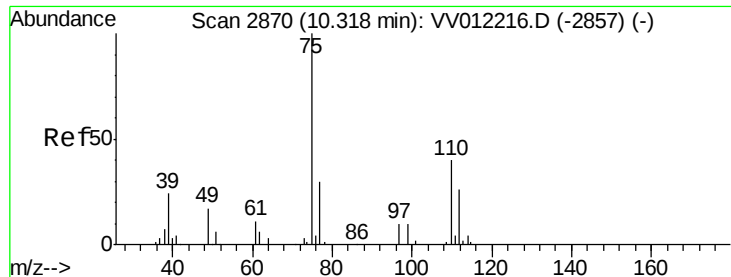
Ion Ratio Lower Upper

83 100

85 66.0 45.0 83.6

131 10.4 8.3 12.5





#59

1,2,3-Trichloropropane

Concen: 22.863 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

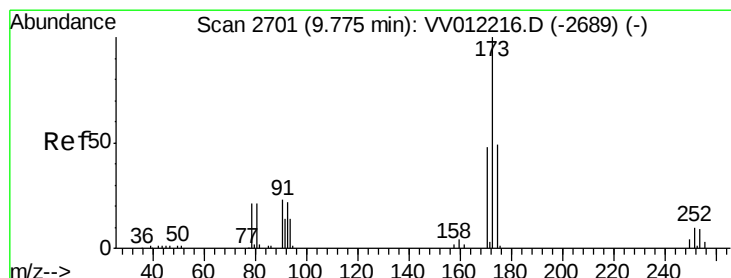
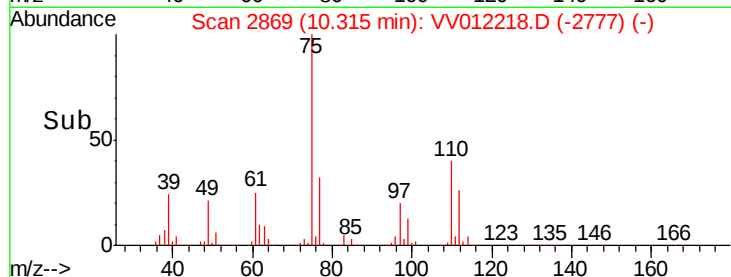
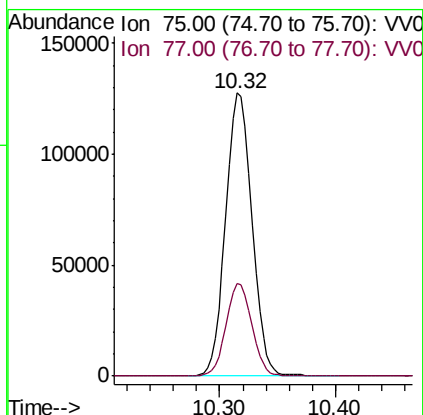
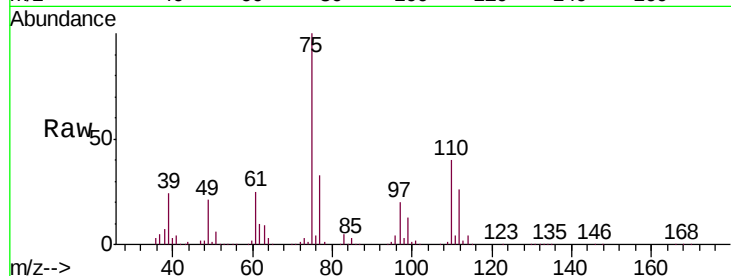
VSTD02033

Tgt Ion: 75 Resp: 200311

Ion Ratio Lower Upper

75 100

77 31.5 25.0 37.6



#61

Bromoform

Concen: 18.522 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

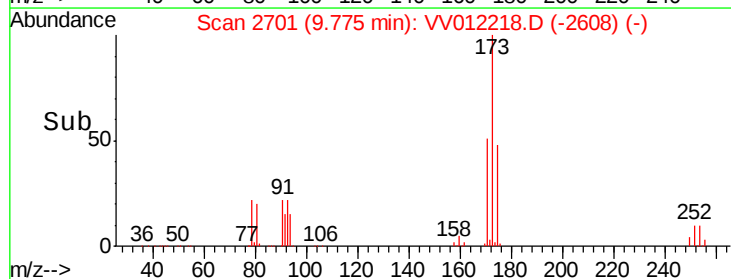
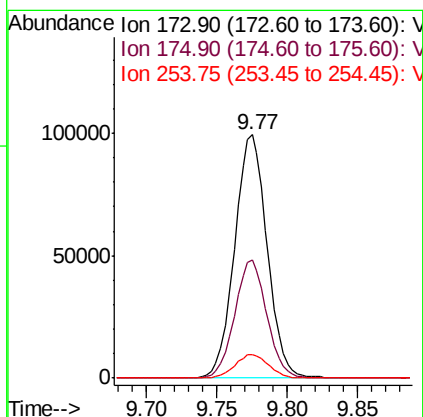
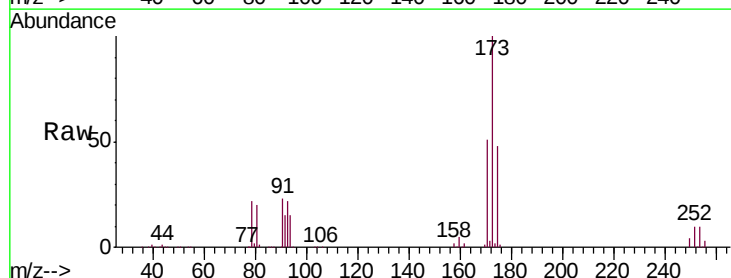
Tgt Ion: 173 Resp: 160313

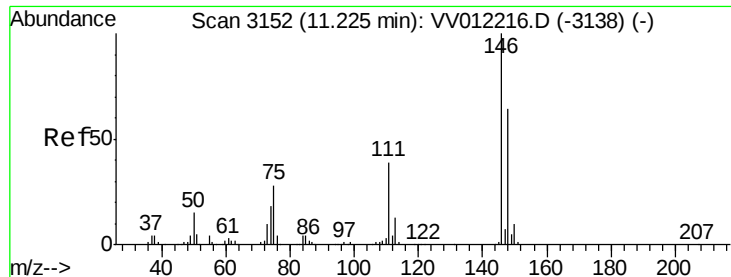
Ion Ratio Lower Upper

173 100

175 47.8 38.8 58.2

254 10.0 7.6 11.4





#62

1,3-Dichlorobenzene

Concen: 21.879 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

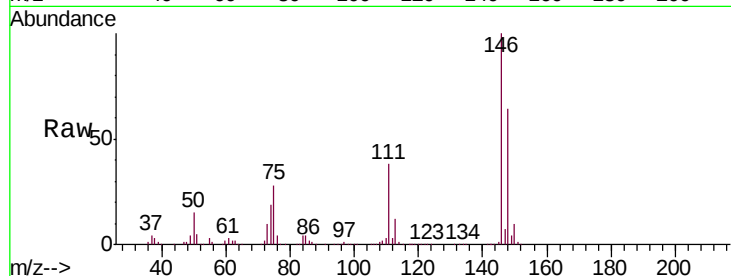
Tgt Ion:146 Resp: 793254

Ion Ratio Lower Upper

146 100

111 38.4 26.9 50.1

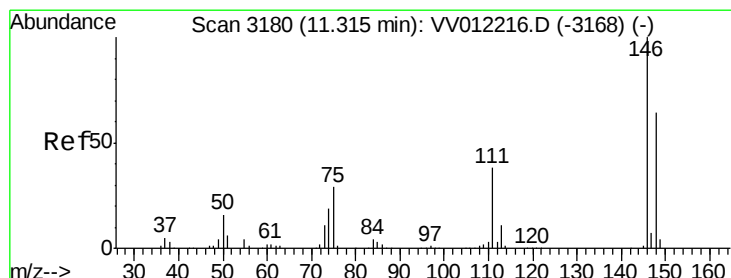
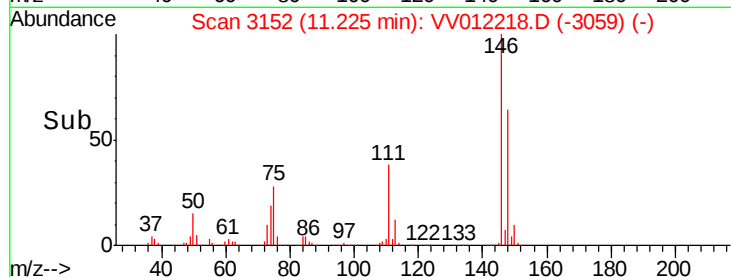
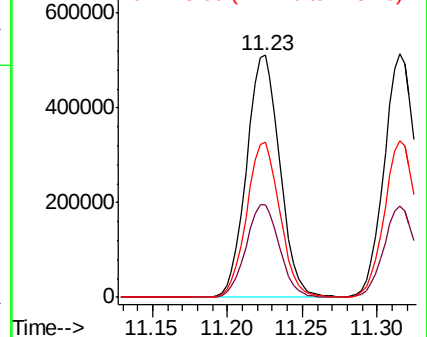
148 64.0 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 21.525 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

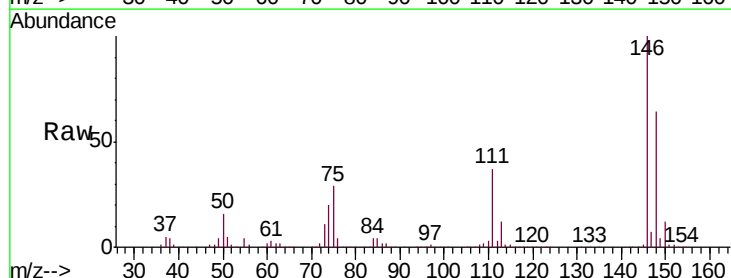
Tgt Ion:146 Resp: 779953

Ion Ratio Lower Upper

146 100

111 37.5 27.0 50.2

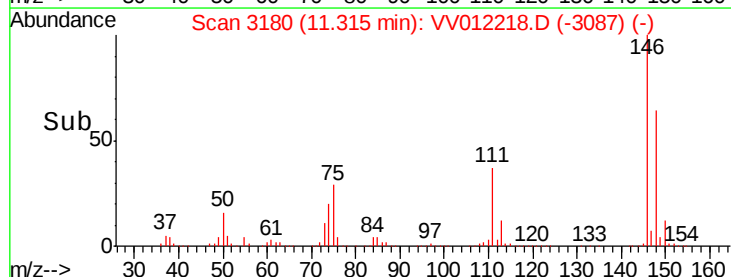
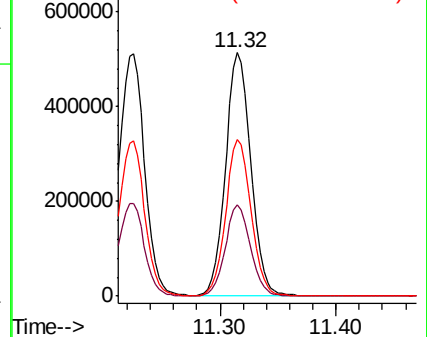
148 64.4 44.5 82.7

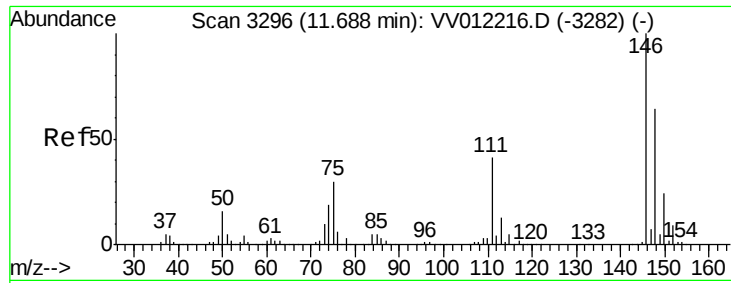


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 21.545 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

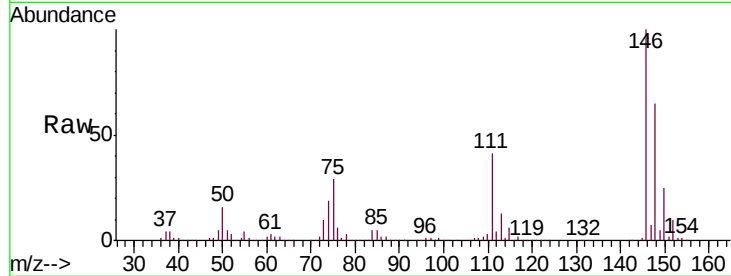
Tgt Ion: 146 Resp: 721982

Ion Ratio Lower Upper

146 100

111 40.9 33.0 49.4

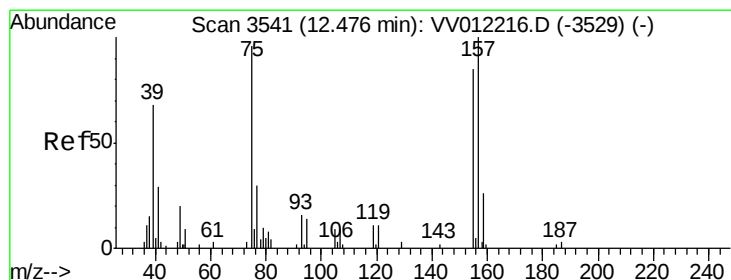
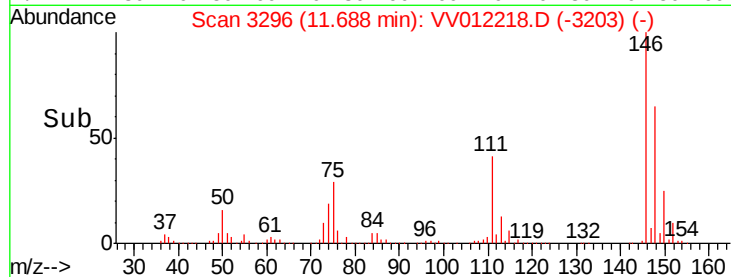
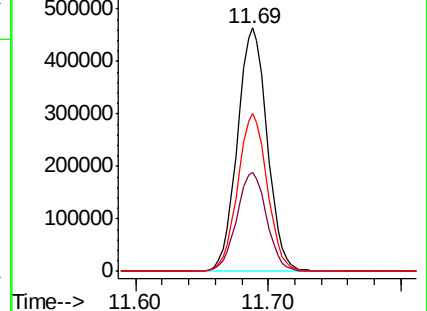
148 64.8 51.1 76.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 21.283 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

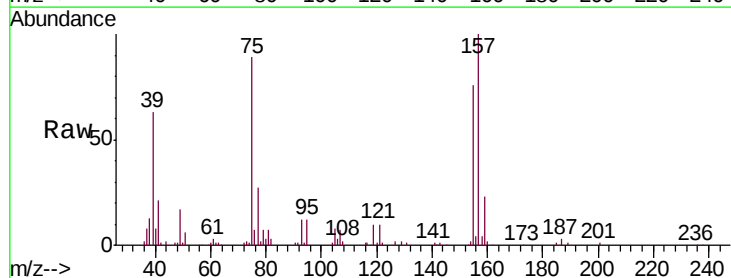
Tgt Ion: 75 Resp: 45005

Ion Ratio Lower Upper

75 100

155 85.9 70.8 106.2

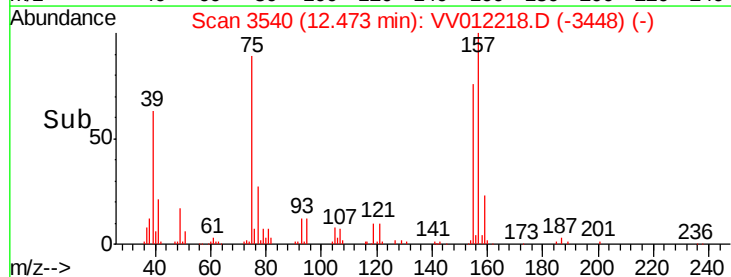
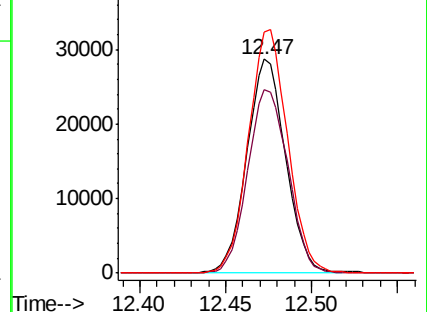
157 112.7 83.5 125.3

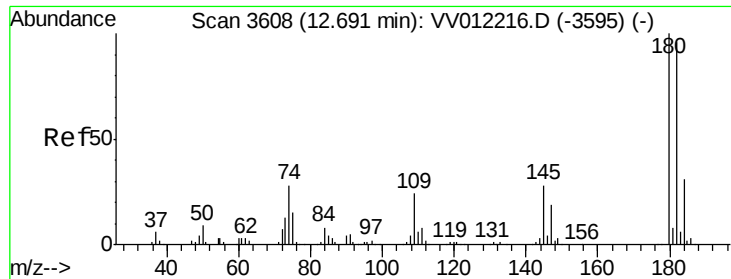


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V





#67

1,3,5-Trichlorobenzene

Concen: 20.563 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

Tgt Ion:180 Resp: 619862

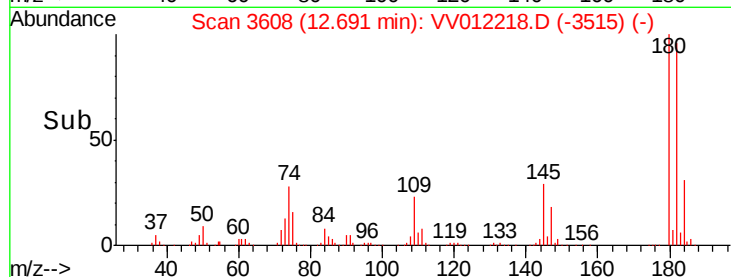
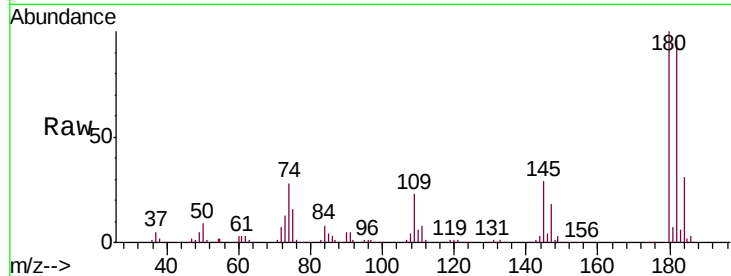
Ion Ratio Lower Upper

180 100

182 96.2 76.3 114.5

184 30.5 24.6 36.8

145 29.4 23.2 34.8

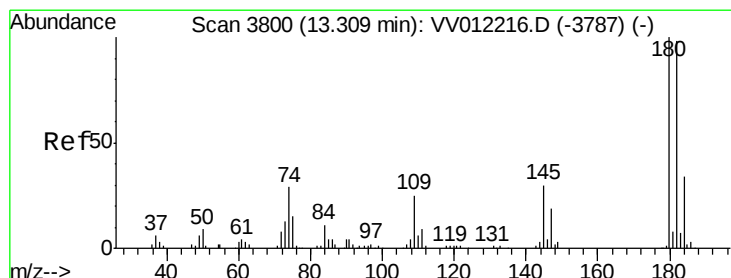
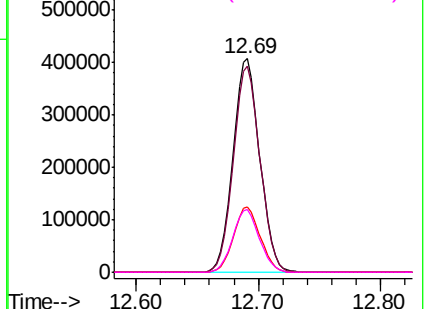


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 21.029 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

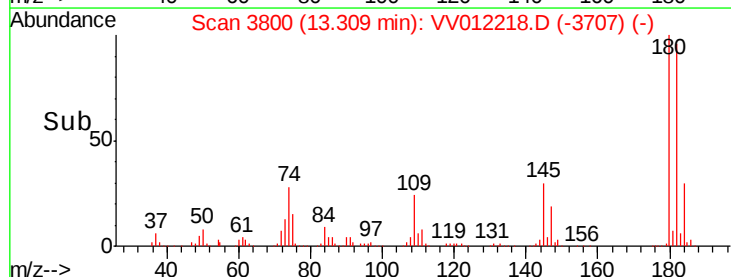
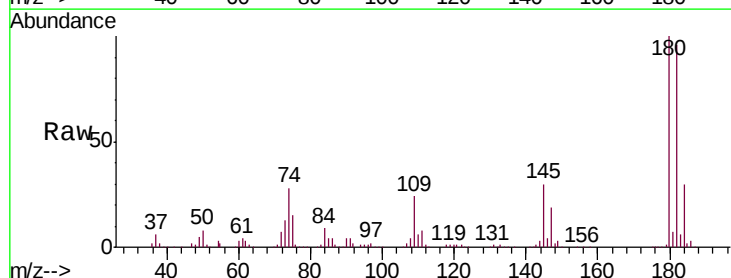
Tgt Ion:180 Resp: 515714

Ion Ratio Lower Upper

180 100

182 95.3 77.2 115.8

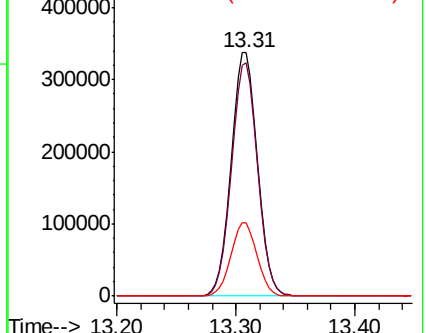
145 30.0 23.9 35.9

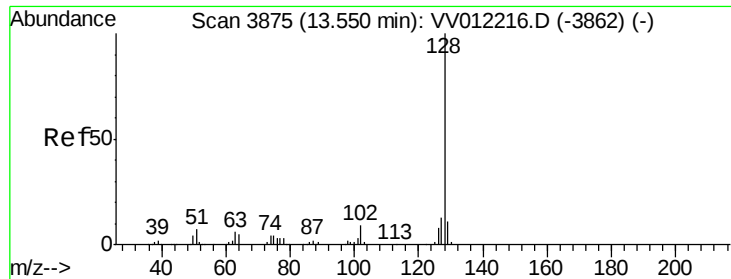


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 21.859 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

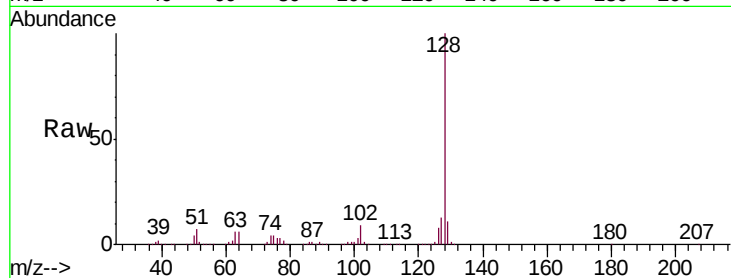
Tgt Ion:128 Resp: 855043

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

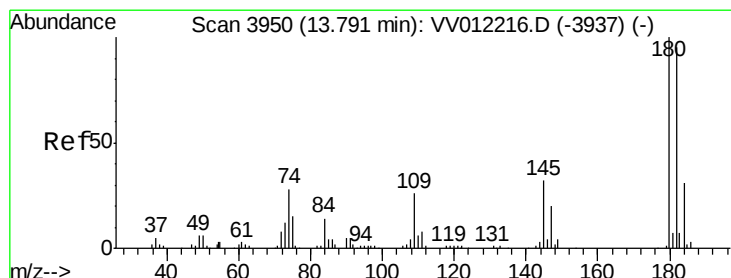
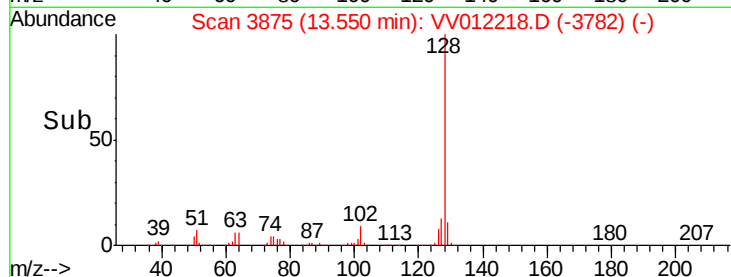
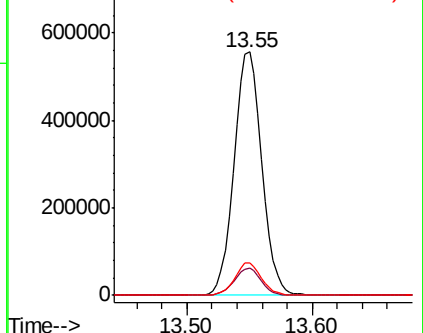
127 12.8 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 19.946 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV012218.D

Acq: 13 Aug 2019 16:23

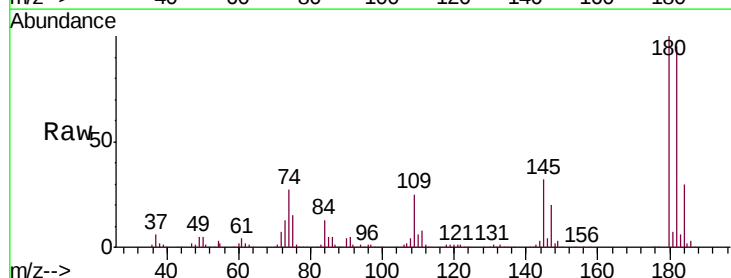
Tgt Ion:180 Resp: 467867

Ion Ratio Lower Upper

180 100

182 95.6 75.0 112.4

145 31.4 24.8 37.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

